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ABSTRACT

This is the second volume of the three volume final report for the Health/Education Telecommunications Experiment. This appendix is a collection of documents which further elucidate the planning and construction of the communications facility. It includes a chronology of funding and contracting events, and copies of the actual grants and contracts that made the experiment possible. (EMH)

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ED114069

ALASKA ATS-6

HEALTH/EDUCATION TELECOMMUNICATIONS

EXPERIMENT

ALASKA EDUCATION EXPERIMENT

F I N A L R E P O R T

VOLUME II
APPENDICES A THROUGH E

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EDUCATION & WELFARE
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September 30, 1975

IR 002 693

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APPENDIX A

ATS-6 HEALTH/EDUCATION TELECOMMUNICATIONS EXPERIMENT

Program Planning, Funding and Contracting Milestone Chronology

Date	Appendix	Milestone Description
March 1972 to January 1973		Alaska Educational Broadcasting Commission submittal to U.S. Department of Health, Education and Welfare: "A Proposal to Develop a Plan for Alaska's Unique and Innovative Education Demonstration Employing ATS-F" results in planning grant awards totalling $79,650 for planning through June 30, 1973.
September 22, 1972		AEBC submits to National Center for Educational Technology/HEW: "ATS-F/Alaska Program Plans."
December 1972		AEBC submits to NCET: "Alaska/ATS-F Health/Education Telecommunications Experiment Program Plans." Grant Request: $4,105,000 Period of Grant: 1/1/73 through 6/30/75
February 1973		Supervision of ATS-F HET experiment shifts from AEBC to Alaska Governor's Office of Telecommunications.
February 1973		GOT submits to NCET: "Alaska/ATS-F Health/Education Telecommunications Experiment Program Plan Revisions." Grant Request: $1,337,100 Period of Grant: 1/1/73 through 6/30/75
March 26, 1973		GOT submits to NCET: "Alaska/ATS-F Planned Activities, April-June 1973." Grant Request: $50,000 Period of Grant: April-June 1973
May 10, 1973	A.1	NCET awards GOT Grant Request. Grant Award: $50,000
	A.1.2	Grant extended to 11/10/73
	A.1.3	Grant extended to 12/31/73
May 11, 1973		GOT submits to NCET: "Alaska ATS-F Planned Activities, July 1, 1973 to June 30, 1974." Grant Request: $774,900 Period of Grant: FY 1974

APPENDIX A (Continued)

Date	Appendix	Milestone Description
June 1973		GOT submits to NCET: "Alaska/ATS-F Planned Activities, Budget Clarification, July 1, 1973 to June 30, 1974." Grant Request: $774,900 Period of Grant: FY 1974
June 20, 1973	A.9	GOT submits to Corporation for Public Broadcasting: "A Proposal for Support of Technological Experiments Scheduled by the State of Alaska in Connection with the Public Broadcasting Portions of the Alaska ATS-F Experiment." Grant Request: $64,749 Period of Grant: FY 1974
June 1973		GOT submits to HEW (at HEW request) and Installation and Maintenance Proposal. Grant Request: $221,500 Period of Grant: through FY 1975
June 28, 1973	A.2	HEW awards Installation and Maintenance Contract to GOT. Contract Award: $185,000 (with the additional $36,500 to be awarded if HEW funds are available.) Period of Contract: 6/21/73 through 6/30/74
July 1973	A.1.1	Supervision of ATS-6 Alaska HET experiment shifts from NCET to National Institute of Education/HEW.
July 1973	A.1.1.a	NIE requests GOT submit new program proposal. (NIE will perform independent project evaluation.)
July 1973		GOT conducts first site survey.
August 1973		GOT submits to NIE: "Alaska ATS-F Health/Education Telecommunications Budget Clarification Revisions" and "Executive Summary." Grant Request: $774,900 Period of Grant: FY 1974
October 16, 17, 18, 1973		Alaska Site Visit by team of NIE reviewers. Juneau/ Anchorage/Allakaket.
October 18, 1973	A.9.1	CPB awards GOT Grant Request (ANM support). Grant Award: $64,749 Period of Grant: FY 1974

APPENDIX A (Continued)

Date	Appendix	Milestone Description
October 1973		GOT begins site preparation.
November 5, 1973		"Composite Review" of Site Visit issued by NIE.
December 18, 1973	A.3	GOT enters into contract agreement for program design with Northwest Regional Educational Laboratory. Contract Agreement: $220,457.00 Period of Agreement: 12/18/73 through 2/18/75
December 20, 1973	A.1.4	NIE awards GOT Grant Request. Grant Award: $650,000 Period of Grant: FY 1974 (indicating anticipated FY 1975 grant of $840,000.)
December 1973		Consumer committee selection begins.
December 1973		Equipment delivery begins.
January 1974		NWREL/Anchorage office opens.
February 19-21, 1974		First consumer committee meetings (Instructional Programming: Early Childhood Education, Health Education and Basic Oral Language Development).
February 28, 1974	A.3.1	GOT modifies NWREL contract agreement. Modification: Reduce BOLD from 64 to 32 programs, "with appropriate increase in printed materials" at no additional cost.
March 1974		GOT submits to NIE: "Alaska/ATS-F Health/Education Telecommunications Experiment Program Plans." Grant Request: $840,000 Period of Grant: FY 1975
March 18, 1974	A.5	GOT enters into contract agreement with University of Alaska, Division of Media Services (KUAC) for program production. Contract Agreement: $650,233.83 Period of Contract: 3/18/74 through 6/30/75 (funding after 6/30/74 depending on NIE funding)
March 21, 1974		GOT submits to NASA: "Alaska ATS-F Project Experimental Test Plan."

APPENDIX A (Continued)

Date	Appendix	Milestone Description
April 8, 1974	A.4	GOT awards Installation and Maintenance sub-contract to University of Alaska, Division of Media Services. Contract Agreement: $84,224.86 Period of Contract: 4/8/74 through 6/30/75
April 1974		GOT begins earth terminal installation.
April 29 to May 2, 1974		Second Alaska Site Visit by NIE review team. Juneau/ Petersburg/Yakutat/Angoon/Anchorage/Fairbanks.
May 30, 1974		NIE issues "Composite Review" of Alaska Site Visit for FY 1975 funding proposal.
May 30, 1974		ATS-6 satellite launched.
June 4, 1974	A.2.1	HEW modifies GOT Installation and Maintenance Contract. Modification: $17,860 increase (microwave link installation/Fairbanks) Period of contract: extended from 6/30/74 to 6/30/75
June 1974	A.6.1	Negotiating meeting with NIE and GOT in Washington, D.C.
June 18, 1974		GOT submits "Alaska ATS-6 Project Response" to NIE Site Visit report.
June 27, 1974	A.5.4	KUAC sub-contracts puppet design and construction to Joe Princiotta. Contract: $14,440.00 Period of Contract: 7/27/74 through 6/30/75
June 28, 1974	A.1.5	NIE extends GOT FY 1974 Grant. Extension: from 6/30/74 to 7/31/74 (ECE and BOLD funding suspended 6/30/74)
	A.1.5.a	ECE cut from 32 to 16, for broadcast start in January 1975, if funded.
July 1, 1974		First meeting of Alaska Native Magazine consumer committe
July 1974		NWREL suspends ECE design development.
July 23, 1974	A.5.1	GOT enters into revised contract agreement with University of Alaska, Division of Media Services (KUAC) for program production. Contract Revision: $625,001.83 Period of Contract: 7/23/74 through 6/30/75 (NIE: $583,355.51 CPB: $41,646.32)

APPENDIX A (Continued)

Date	Appendix	Milestone Description
July/August 1974		NIE conducts review of ECE and BOLD programs.
July 12, 1974		GOT submits Work Statement and Project Milestones to NIE. Grant Request: $680,000 Period of Grant: FY 1975
July 29, 1974	A.1.6	NIE extends GOT FY 1974 Grant. Extension: From 7/31/74 to 8/15/74
August 5, 1974	A.6.1.a	Governor Egan writes Alaska Congressional Delegation re: NIE Alaska fund review.
August 1974	A.6	NIE awards Grant to GOT. Grant Award: $609,198 Period of Grant: 7/1/74 through 9/30/75 (BOLD and ECE programs still under review.)
August 1974 to December 1974	A.10	GOT enters into contract agreement with utilization aides.
August 1974		Utilization aides training session/Juneau.
August 23, 1974	A.6.2	NIE informs GOT of decision to fund BOLD, but discontinue ECE funding.
August 26, 1974	A.1.7	NIE extends GOT FY 1974 Grant. Extension: from 8/15/74 to 8/31/74
August 1974		Production of Health Education programming begins.
August 26, 1974		KUAC receives full GOT go-ahead on Basic Oral Language Development.
September 1974		Alaska ATS-6 system testing begins.
September 3, 1974	A.6.3	NIE informs GOT that BOLD funding suspended until further notice, due to NIE FY 1975 funding uncertainties.
September 6, 1974	H.22.1	Consumer Committees urge re-instatement of ECE program series.
September 1974	A.7	GOT awards Glenn Mills Construction bid for antenna base installation in Valdez. Bid Award: $2100

APPENDIX A (Continued)

Date	Appendix	Milestone Description
September 1974	A.8	GOT hires Wire Communications, Inc. to perform terminal installation at Valdez and Yakutat. Cost: $5733.81
September 24, 1974		DemoHET presentation broadcast.
September 26, 1974	A.6.2	GOT informs NIE of Alaskan continuation of BOLD program development.
September 30, 1974	A.9.2	GOT submits to CPB: "A Proposal for the Support of Technological Experiment Scheduled by the State of Alaska in Conjunction with the ATS-6 Satellite Communication Experiment in Alaska." Grant Request: $49,500 (continued ANM support) Period of Grant: FY 1975
October 7, 1974		Alaska ATS-6 broadcast begins. (Technical difficulties with ATS-6 delay on-time start.)
October 9, 1974	A.6.4	NIE acknowledges Alaska's continued work on BOLD series at own risk. Indicates if NIE receives funding, BOLD will be funded.
October 31, 1974	A.5.2	GOT modifies University of Alaska/KUAC production contract agreement. Modification: $97,538 decrease Period of contract: same (termination of ECE production and reduced NIE funding)
October 31, 1974	A.3.2	GOT modifies NWREL program design contract agreement. Modification: $27,669 decrease Period of contract: same (termination of ECE design and reduced NIE finding)
October 31 to November 1, 1974		Last Health Education and BOLD consumer committee meetings.
November 8, 1974	A.3.3	NWREL requests $17,557 funding increase from GOT.
November 15, 1974	A.3.4	GOT modifies NWREL design contract agreement. Modification: $10,500 increase Period of contract: same (BOLD and Health Education script writing completion, and teacher's manuals)

APPENDIX A (Continued)

Date	Appendix	Milestone Description
January 1975		NWREL/Anchorage office closes.
January 28, 1975	A.9.3	CPB awards GOT Grant Request. Grant Award: $49,500 Period of Grant: FY 1975
February 14, 1975	A.6.5	NIE modifies GOT's FY 1975 Grant. Modification: $55,546 increase Period of Grant: same (inclusion of BOLD funding)
March 10, 1975	A.3.5	GOT modifies NWREL program design contract agreement. Modification: $11,637 cost extension Period of contract: extended to 5/30/75 (for extended consultation to GOT and KUAC)
March 12 & 13, 1975		Last Alaska Native Magazine consumer committee meeting.
March 26, 1975	A.2.2	HEW modifies GOT Installation and Maintenance contract agreement. Modification: $36,500 increase Period of contract: same
March 26, 1975	A.5.3	GOT modifies University of Alaska/KUAC production contract agreement. Modification: $28,920 increase Period of contract: same (for completion of BOLD series)
May 13, 1975		Last Alaska ATS-6 program broadcast.
After May 15, 1975		ATS-6 moves to India.
May 1975		Final Evaluation Conference in Anchorage.
July 1975	A.9.4	GOT contract agreement with KUAC (ANM series). Contract Agreement: $29,991 (CPB funds) Period of Contract: 6/13/75 through 8/29/75
March to September 1975		Preparation of GOT Final Report.

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE

NOTIFICATION OF GRANT AWARD

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Office of the Governor of Alaska
State of Alaska
Juneau, Alaska 99801

10904
GRANT NUMBER
OEG-0-73-2896
PROJECT NUMBER
R-030134
4. AMOUNT
$50,000.00
5. PERIOD OF GRANT (Month, Day, Year)
FROM Same as Block 12 THROUGH 90 days after date of award

6. MAKE CHECKS PAYABLE TO:
SAME AS ABOVE

7. GRANT AWARD IS (Check one) A. [X] NEW B. [ ] REVISED

8. PROPOSAL TITLE Project Director: Mr. Charles Northrip
Alaska ATS-F Health/Education Telecommunications Experiment

9. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

A. The grantee's proposal dated February 1973 as amended March 26, 1973 forms the scope of work for which the Grantee is being funded hereunder.

B. This Grant shall be administered in accordance with the following:

1. Grant Terms and Conditions, OE Form 5241 (1/72) and Special Grant Terms and Conditions, OE Form 5241-1 (2/73) as attached.

C. The grantee shall <u>not</u> be reinbursed for Indirect Cost.

D. <u>Payment</u>

The procedure cited in paragraph 3(c) of the Special Grant Terms and Conditions apply. Copies of Form HEW-604T are attached.

E. Prior to any purchase of equipment or furniture having an acquisition cost of $100 or more and a useful life expectancy greater than one year, whether by the grantee or one of his subcontractors, procured with Grant funds for use in the performance of this Grant, written approval of the OE Grants Officer must be obtained. Further, it is required that the grantee submit his actual buying list, approximately 30 days before purchase, showing nomenclature, model number, if any, unit acquisition cost and explain whether the specified acquisition cost was the result of competitive pricing.

10. GRANT AUTHORITY
Sec. 2(a)(1) of the Cooperative Research Act (P.L. 531, Sec. 2, 83rd Congress as amended (20 USC 331a))
CAN: 2002886
APP: 7530292

APPROVED

11. NAME OF GRANTS OFFICER (Please type)
~~Thomas Hobbin~~

(Signed) Robert Mintz

12. DATE
MAY 10 1973

13. SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
R. Grant Mintz

OE FORM 5242, 12/69 REPLACES OF FORM 5242, 11/68, WHICH IS OBSO-

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF EDUCATION
WASHINGTON, D. C. 20202

NOTIFICATION OF GRANT AWARD

(Single Signature)

VENDOR NUMBER: 600904

1. NAME AND ADDRESS OF INSTITUTION (No., Street, City, State, and ZIP Code)

Office of Telecommunication
Office of the Governor of Alaska
State of Alaska
Juneau, Alaska 99801

2. GRANT NUMBER: OEG-0-73-2896

3. PROJECT NUMBER: R-030134

4. AMOUNT: $ NO CHANGE

5. PERIOD OF GRANT (Month, Day, Year)

FROM: NO CHANGE THROUGH: NO CHANGE

6. MAKE CHECKS PAYABLE TO:

Same as Above

7. GRANT AWARD IS (Check one)

A. ☐ NEW B. ☒ REVISED 1

8. PROPOSAL TITLE

Alaska ATS-F Health/Education Telecommunication Experiment

9. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

1. This revision is issued to transfer the administration of this Grant to the National Institute of Education, Mr. Martin H. Duby, Grants Officer, 1717 H St. NW, Washington, D.C. 20016

2. The Project Officer responsible for the technical monitoring of this project as representative of the Grants Officer is Dr. Larry Grayson, phone (202) 254-6820. Code 600, 716

3. Payment procedure will be furnished Grantee by N.I.E. Wash 20202

10. GRANT AUTHORITY

P.L. 83-531

APPROVED

11. NAME OF GRANTS OFFICER (Please type)

ALBERT RISKIN

12. DATE: JUL 27 1973

13. SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL

E. J. Peltason

OE FORM 5232, 12/69 REPLACES OE FORM 5232, 11/68, WHICH IS OBSOLETE

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
CODE 600
WASHINGTON, D.C. 20208

July 26, 1973

Mr. Charles M. Northrip
Satellite Experiment Coordinator
Office of the Governor
State of Alaska
Pouch A
Juneau, Alaska 99801

Dear Charlie:

As I mentioned in our telephone conversation last Friday, the support for the education components of the Alaska satellite activities on ATS-F has shifted from the Office of Education to the National Institute of Education. I am now serving as project officer for your grant #OEG-0-73-2896, and will be assisted by Mr. Kevin Arundel.

Your telegram requesting a 90-day no-cost extension on your present planning grant has been received. Your request seems in order, and I have asked the NIE grants officer to give you a decision as quickly as possible.

I also have reviewed the proposal for FY 1974 funding that you submitted in February, and the additional documents that you submitted in May. They appear to contain much of the information that we require in order to make a funding decision. However, the February document appears to have been outdated by more recent planning on your part, and all these documents do contain some obvious discrepancies. I suggest that you submit a new, stand-alone proposal, which would include:

1. The relevant parts of the February and May documents;

2. All of the budget information in one section of the proposal;

3. Your projected plans and budget for FY 1975, in addition to the specific FY 1974 proposal;

4. The amount of FY 1974 and FY 1975 funds for the project that you are requesting from agencies other than NIE, and the agencies from which you are requesting that support;

5. A complete and consistent schedule for all of your proposed broadcasts during the experiment period;

6. Your latest organization chart showing key personnel and their responsibilities;

7. Vita for all key personnel; and

8. A description of the progress that you have made to date.

Also, please provide an executive summary, about five to ten pages in length, for your proposal.

Funds for the Alaska Operations Center and for the ground equipment, both receiving and transmitting, should be provided under your contract with HEW/OS. These funds should not appear in your request for support from NIE, but should appear in your proposal to us as your requirements from HEW/OS.

In addition, do not include any requests for funds for an evaluation. NIE expects to support an independent study of the costs and effectiveness of all of the educational satellite projects. If you have any ideas of what should be included in such a study, I would be pleased to hear them.

In order to get your proposal reviewed as quickly as possible, I suggest that you send me 20 copies of it as soon as its available. Be assured that as soon as I receive your proposal, I will do everything possible to expedite its review and a funding decision.

Sincerely yours,

Larry

Lawrence P. Grayson
Program Officer
Task Force on Technology
and Productivity

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
National Institute of Education
Washington, D. C. 20202 Code 600

NOTIFICATION OF GRANT AWARD

VENDOR NUMBER
OE- 600904
NIH- N/A

1. NAME AND ADDRESS OF INSTITUTION (No., Street, City, State, and ZIP Code)

Office of Telecommunication
Office of the Governor of Alaska
State of Alaska
Juneau, Alaska 99801

2. GRANT NUMBER
OEC-0-73-2896

2A. TRANSACTION NUMBER
N/A

3. PROJECT NUMBER
R00134

4. AMOUNT
$ UNCHANGED

5. PERIOD OF GRANT (Month, Day, Year)
FROM 8/10/73 THROUGH 11/10/73

6. MAKE CHECKS PAYABLE TO:
SAME AS ABOVE

7. GRANT AWARD IS (Check one)
A. ☐ NEW B. ☒ REVISION NO. #2

8. PROPOSAL TITLE

Alaska ATS-F Health/Education Telecommunication Experiment

9. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

1. This revision is issued to extend the grant end date from August 10, 1973 to November 10, 1973, in accordance with Grantees request of July 19, 1973 and NIE letter of approval dated July 27, 1973.

2. Pursuant to the provisions of Public Law 92-318 and the transfer of responsibilities as designated therein, administration of this Grant has been transferred to the National Institute of Education.

3. All other Terms and Conditions remain unchanged.

RW:dg

10. GRANT AUTHORITY

P.L. 92-318 Approp/7530293 CAN/2002836

APPROVED

11. NAME OF GRANTS OFFICER (Please type)
[illegible] B. Baby

12. DATE
SEP 10 1973

13. SIGNATURE OF AUTHORIZED GRANTS OFFICIAL
Martin B. Baby

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
National Institute of Education
Washington, D. C. 20202 Code 600

NOTIFICATION OF GRANT AWARD

VENDOR NUMBER
OE- 600904
NIH- N/A

NAME AND ADDRESS OF INSTITUTION (No., Street, City, State, and ZIP Code)

Office of Telecommunication
Office of the Governor of Alaska
State of Alaska
Juneau, Alaska 99801

RECD NOV 13 1973

2. GRANT NUMBER
OEG-0-73-2896

2A. TRANSACTION NUMBER
N/A

3. PROJECT NUMBER
R00134

4. AMOUNT
$ UNCHANGED

5. PERIOD OF GRANT (Month, Day, Year)
FROM 11/10/73 THROUGH 12/31/73

6. MAKE CHECKS PAYABLE TO:
Same as Above

7. GRANT AWARD IS (Check one)
A. ☐ NEW B. ☒ REVISION NO. 3

8. PROPOSAL TITLE

Alaska ATS-F Health/Education Telecommunication Experiment

9. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

1. This revision is issued to extend the grant end date from November 10, 1973 to December 31, 1973, in accordance with Grantees request given at Program Status Meeting at NIE office on October 29, 1973 and telephone request of November 6, 1973.

2. All other Terms and Conditions remain unchanged.

RW/dm

10. GRANT AUTHORITY

P.L. 92-318 Approp/7530296 CAN/2002886

APPROVED

11. NAME OF GRANTS OFFICER (Please type)
Martin H. Duby

12. DATE
NOV [illegible] 1973

13. SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
Martin H Duby

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
National Institute of Education
Washington, D. C. 2020
NOTIFICATION OF GRANT AWARD

VENDOR NUMBER
OE- 600904
NIH- N/A

NAME AND ADDRESS OF INSTITUTION (No., Street, City, State, and ZIP Code)

Office of Telecommunication
Attn: Dr. Charles Northrip
Office of the Governor
State of Alaska
Juneau, Alaska 99801

2. GRANT NUMBER
OEG-0-73-2896

2A. TRANSACTION NUMBER
N/A

3. PROJECT NUMBER
R00134

4. AMOUNT
$ 650,000

5. PERIOD OF GRANT (Month, Day, Year)
FROM: no change
THROUGH: 6/30/74

MAKE CHECKS PAYABLE TO:
same as above

7. GRANT AWARD IS (Check one)
A. ☐ NEW B. ☒ REVISION NO. 4

PROPOSAL TITLE

Alaska ATS-F Health/Education Telecommunication

SCOPE OF WORK AND/OR SPECIAL CONDITIONS

1. The following documents are incorporated into and made a part of this Grant Award:

   (1) Grantee's Proposal dated August, 1973, as modified by two sets of conditions; noted in Items (2) and (3) following.

   (2) Subcontract (1) Instructional Content Development; (2) Television Production (Appendices 1 & 2 attached)

   (3) Successfully meet a set of milestones by March 15, 1974 (Appendix 3 attached).

2. It is the intent of the National Institute of Education to continue support of this Grant for one (1) additional year, provided (1) funds are available and (2) continuation of this project will be carried out essentially as delineated in Item 1, or as modified by mutual agreement.

3. Estimated Cost:

   (1) It is estimated that the total cost to the Government for the two year period ending June 30, 1975 will be approximately $1,490,000.

RW:dm

GRANT AUTHORITY
P.L. 92-318 Approp/7540296 CAN/4B005152 Obj Code/41.45 Prog. Office: ORES

APPROVED

NAME OF GRANTS OFFICER (Please type)
Martin H. Duby

12. DATE
12/20/73

SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
Martin H. Duby

(2) Total funds currently available for payment and allotted to this Grant for FY '74, are as follows:

Funding thru Last Revision	Funding this Revision	Balance to be Funded FY '75*
$50,000.	$650,000.	$840,000.

(3) It is estimated that the amount currently allotted will cover performance through June 30, 1974.

4. Except as modified above, all other terms and conditions remain unchanged.

5. Enclosures:

Appendix 1 - Statement of Work, re Instructional Content Development, subcontracted to the Northwest Regional Educational Laboratories and incorporated herewith.

Appendix 2 - Statement of Work, re Television Production, subcontracted to the University of Alasks/Division of Media Services, and incorporated herewith.

Appendix 3 - Listing of milestones to be met by Grantee by March 15, 1974, and incorporated herewith.

*Subject to provisions noted in Item 2, under Scope of Work.

RECD JUL 05 1974

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
WASHINGTON, D. C. 20208

NOTIFICATION OF GRANT AWARD

1. NAME AND ADDRESS OF GRANTEE ORGANIZATION Office of Telecommunications Office of the Governor of Alaska State of Alaska Juneau, Alaska 99801 Attention: Mr. Charles L. Buch, Director	2. GRANT NO. OEG-0-73-2896
	3. PROJECT NO. R00134
	4. GRANT PERIOD (mo., day, yr.) FROM: No Change TO: 07/31/74
I. D. NO.	5. AMOUNT $ Unchanged
6. PROJECT TITLE Alaska ATS-6 Health/Education Telecommunication Experiment	7. GRANT AWARD IS (Check one) A. ☐ NEW B. ☒ REVISION NO. 5

8. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

1. This Revision is issued to extend the grant end date from June 30, 1974 to July 31, 1974, at no additional cost to the Government.

2. This end date extension is granted in order that the office of Telecommunications can develop and submit to NIE which will describe in detail a Scope of Work by (1) Task and Sub-Task re the proposed programmatic activities and (2) the costs related to each of the Tasks and Sub-Tasks identified in (1) above, as follows:

   A. The proposed FY 75 continuation program, excluding the production activities of the two (2) Components, Early Childhood and Basic Oral Language.

   B. The production costs of the Early Childhood Component.

   C. The production costs of the Basic Oral Language Component.

3. The proposal is scheduled to be presented to NIE on approx. July 15, 1974, and a Contract covering Item 2A above schedule to be executed by July 31, 1974.

4. All subcontractor activities relating to the production of the Early Childhood and Basic Oral Language components will not be entered into or funded by NIE after June 30, 1974, until further notice. Direction regarding the resolution of the production activities of these two (2) components will be given by NIE on or before August 31, 1974.

5. All other Terms and Conditions remain unchanged.

9. GRANT AUTHORITY	10. APPROPRIATION NO.	11. OBJECT CLASS	12. CAN
P.L. 92-318	7540296	41.45	N/A

FCR No. N/A
NIH Vendor Code: _____
OE Vendor Code: 600904
Transaction No: N/A
Prog. Office: P&T Programs

TYPED NAME OF GRANTS OFFICER
Raymond F. Wormwood

DATE
June 28, 1974

SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
Raymond F. Wormwood 32

NIE FORM 40 (3/74)

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
WASHINGTON, D.C. 20208

August 9, 1974

Dr. Charles L. Buck
Director
Office of Telecommunications
Office of the Governor
State of Alaska
Pouch AC
Juneau, Alaska 99801

Dear Chuck:

In response to your letter of July 31, the reduction of the proposed number of Early Childhood Education programs from 32 to 16 was in accord with our discussions and agreements of June 25-27, 1974. Your office since then has submitted documentation on the 16 programs, and NIE will make a decision, no later than August 30, on whether or not to support the production of those TV programs.

Sincerely yours,

Lawrence P. Grayson
Program for Productivity
and Technology

cc: Ray Wormwood

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
WASHINGTON, D. C. 20208

NOTIFICATION OF GRANT AWARD

1. NAME AND ADDRESS OF GRANTEE ORGANIZATION Office of Telecommunications Office of the Governor of Alaska Pouch AC Juneau, Alaska, 99801	2. GRANT NO. OEG-0-73-2896
	3. PROJECT NO. R00134
	4. GRANT PERIOD (mo., day, yr.) FROM: No Change TO: August 15, 1974
I. D. NO.	5. AMOUNT $ Unchanged
6. PROJECT TITLE Alaska ATS-VI Health/Education Telecommunication Experiment	7. GRANT AWARD IS (Check one) A. ☐ NEW B. ☒ REVISION NO. 6

8. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

This Revision is issued to accomplish the following:

1. To extend the Grant end date from July 31, 1974 to August 15, 1974, at no additional cost to the government.

2. To allow additional time for the grantee to develop and submit to NIE a Post-Negotiation Scope of Work by (1) Task and Sub-Task re the negotiated programmatic activities and (2) the costs related to each of the Tasks and Sub-Tasks identified in (1) above.

3. All other Terms and Conditions remain unchanged.

9. GRANT AUTHORITY	10. APPROPRIATION NO.	11. OBJECT CLASS	12. CAN
P.L. 92-318	7540296	41.45	N/A

FCR No.: N/A OE Vendor Code: 600904 P &T
NIH Vendor Code: N/A Transaction No.: N/A Prog. Office: Programs

TYPED NAME OF GRANTS OFFICER	DATE
Raymond F. Wormwood	July 29, 1974

SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
Raymond F. Wormwood

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
WASHINGTON, D. C. 20208

NOTIFICATION OF GRANT AWARD

1. NAME AND ADDRESS OF GRANTEE ORGANIZATION	2. GRANT NO.	
Office of Telecommunications Office of the Governor of Alaska Pouch AC Juneau, Alaska 99801	OEG-0-73-2896	
	3. PROJECT NO. R00134	
	4. GRANT PERIOD (mo., day, yr.) FROM: No Change	TO: 8/31/74
I. D. NO.	5. AMOUNT $ Unchanged	
6. PROJECT TITLE: Alaska ATS-6 Health/Education Telecommunication Experiment	7. GRANT AWARD IS (Check one) A. ☐ NEW B. ☒ REVISION NO. 7	

8. SCOPE OF WORK AND/OR SPECIAL CONDITIONS

This revision is issued to accomplish the following:

1. To extend the grant end date from August 15, 1974 to August 31, 1974, at no additional cost to the Government.

2. The above extension of the Grant Period will enable the completion of activities planned and funded in FY 1974.

3. All other Terms and Conditions remain unchanged.

9. GRANT AUTHORITY	10. APPROPRIATION NO.	11. OBJECT CLASS	12. CAN
P.L. 92-318	7540296	41.45	N/A

FCR No.: N/A
NIH Vendor Code: N/A
OE Vendor Code: 600904
Transaction No.: N/A
Prog. Office P & T

TYPED NAME OF GRANTS OFFICER	DATE
Raymond F. Wormwood	August 26, 1974

SIGNATURE OF AUTHORIZED GOVERNMENT OFFICIAL
R. F. Wormwood

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF THE SECRETARY
WASHINGTON, D.C. 20201

JUNE 21, 1973

STATE OF ALASKA
OFFICE OF THE GOVERNOR OF ALASKA
OFFICE OF TELECOMMUNICATIONS
C. L. BUCK, DIRECTOR
CHARLES M. NORTHRIP, SATELLITE EXPERIMENT
COORDINATOR
POUCH A
JUNEAU, ALASKA 99801

SUBJECT: CONTRACT HEW-OS-73-198

GENTLEMEN:

THIS LETTER CONSTITUTES A CONTRACT ON THE TERMS SET FORTH HEREIN AND SIGNIFIES THE INTENTION OF THE GOVERNMENT TO EXECUTE A FORMAL CONTRACT WITH YOU FOR PERFORMANCE OF THE SERVICES AS SET FORTH IN THE ATTACHED ENCLOSURE, MARKED ATTACHMENT "A", UPON THE TERMS AND CONDITIONS THEREIN STATED.

YOU ARE DIRECTED, IN ACCORDANCE WITH THE CLAUSE ENTITLED "EXECUTION AND COMMENCEMENT OF WORK," TO PROCEED IMMEDIATELY TO COMMENCE PERFORMANCE OF THE WORK, AND TO PURSUE SUCH WORK WITH ALL DILIGENCE TO THE END THAT THE SERVICES ARE PERFORMED WITHIN THE TIME SPECIFIED IN ATTACHMENT "A". YOU SHALL, IN ADDITION, OBTAIN SUCH APPROVALS WITH RESPECT TO MONETARY COMMITMENTS HEREUNDER AS MAY BE SPECIFIED IN ATTACHMENT "A".

IN THE EVENT OF TERMINATION OF THE WORK, OR ANY PART THEREOF, UNDER THIS LETTER (PURSUANT TO THE TERMINATION CLAUSE INCORPORATED HEREIN BY REFERENCE) OR IN THE EVENT THAT THE FORMAL (DEFINITIZED) CONTRACT IS NOT EXECUTED, YOU SHALL BE PAID IN ACCORDANCE WITH THE PROVISIONS OF SAID TERMINATION CLAUSE. NON-EXECUTION OF A FORMAL CONTRACT BY REASON OF UNEXCUSABLE DELAY ON YOUR PART MAY JUSTIFY TERMINATION. YOUR ATTENTION IS SPECIFICALLY DIRECTED TO THE CLAUSE ENTITLED "LIMITATION OF GOVERNMENT LIABILITY."

THE CONTRACTOR SHALL ACCEPT NO INSTRUCTIONS WHICH WILL HAVE ANY EFFECT ON CONTRACT PRICE OR DELIVERY EXCEPT THAT SUCH INSTRUCTIONS BE GIVEN DIRECTLY BY THE CONTRACTING OFFICER. ANY SUCH CHANGES REQUESTED BY ANY INDIVIDUAL OTHER THAN THE CONTRACTING OFFICER SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTING OFFICER.

PLEASE INDICATE YOUR ACCEPTANCE OF THE FOREGOING BY SIGNING THIS LETTER AND RETURNING THREE EXECUTED COPIES TO THIS OFFICE BY JUNE 30, 1973.

THIS CONTRACT IS ENTERED INTO PURSUANT TO THE PROVISIONS OF 41 USC 252(c)(10), AND ANY REQUIRED DETERMINATIONS AND FINDINGS HAVE BEEN MADE.

SINCERELY YOURS,

Albert A Cutino

ALBERT A. CUTINO
CONTRACTING OFFICER
UNITED STATES OF AMERICA
PROCUREMENT AND CONTRACTS
BRANCH, SOD-OAS-OS

ATTACHMENT.

EFFECTIVE DATE OF LETTER CONTRACT:

JUNE 28, 1973

EXECUTED, AS OF THE DATE SHOWN BELOW:
STATE OF ALASKA

BY: Charles L. Buck

Director,
Office of Telecommunications
(TYPE ABOVE NAME AND POSITION OF OFFICER EXECUTING THIS ACCEPTANCE.)

DATE: June 25, 1973

ACCOUNTING AND APPROPRIATION DATA:

7533901 3-1990860 $185,000.00

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	5. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1		489012	

ISSUED BY CODE

Department of Health, Education & Welfare
OS, Procurement/Contracts Section, Room
1741 HEW North, 330 Independence Ave.,
Southwest, Washington, D.C. 20201

6. ADMINISTERED BY (If other than block 5) CODE

CONTRACTOR NAME AND ADDRESS (Street, city, county, state, and ZIP Code) CODE FACILITY CODE

State of Alaska
Office of the Governor
Office of Telecommunications
Pouch A, Juneau, Alaska 99801

7.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. HEW-OS-73-198
6/21/73
DATED _____ (See block 11)

8. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

9. ACCOUNTING AND APPROPRIATION DATA (If required)

7543901	4-1990860	Increase	$17,860.00

10. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____
The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 41 USC 252(c)(10)
It modifies the above numbered contract as set forth in block 12.

11. DESCRIPTION OF AMENDMENT/MODIFICATION

1. The purpose of this contract modification is to definitize letter contract HEW-OS-73-198 and to increase the scope of work to include the establishment of a communications link between the Village Health Clincial Center in Fairbanks, and the ATS-F earth terminal location.

2. All clauses, terms and conditions and General Provisions as changed or amended which are applicable only to a letter contract, shall continue in effect in this definitive contract except as modified by this modification No. 1.

3. Article I Scope of Work is amended to add the requirements of the communications link as stated on pages 3,4, and 5 of this modification.

4. Article III - Limitation of Government Liability is deleted and the following substituted

ARTICLE III - LIMITATION OF GOVERNMENT LIABILITY

A. The Contractor is not authorized to make expenditures or to incur obligations, in performance of this contract, which exceed the following:

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 3 COPIES TO ISSUING OFFICE

15. NAME OF CONTRACTOR/OFFEROR		17. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)		BY (Signature of Contracting Officer)	
15A. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
C.L. Buck, Director	6/4/74	ALBERT A. CUTINO	6/11/74

NSN 7540-01-152-8067 38 REC'D JUN 13 1974 U.S. GOVERNMENT PRINTING OFFICE : 1973 O - 458-928

Two hundred and two thousand, eight hundred and sixty dollars ($202,860.00).

B. The maximum amount for which the Government shall be liable if this contract is terminated is:

Two hundred and two thousand eight hundred and sixty dollar ($202,860.00).

E. Article IV - Definitization is hereby deleted .

F. Article V - Period of Performance is deleted and the following substituted:

ARTICLE V - PERIOD OF PERFORMANCE

The period of performance of the definitive contract for the services set forth in ARTICLE I, SCOPE OF WORK shall be from the effective date of this letter contract through June 30, 1975.

G. Article XIV - Estimated Cost (No Fee) is deleted and the following substituted:

ARTICLE XIV-- ESTIMATED COST (No Fee)

The estimated cost of this contract is $239,360.00, with NO FEE.
NOTE: Only $202,860.00 is funded under this contract; the balance of $36,500.00 will be funded as funds become available. See ARTICLE XXXIX - LIMITATION OF FUNDS.

H. Article XV - Submission of Vouchers/Invoices, paragraph B is deleted and the following substituted:

B. The estimated costs for this contract as contemplated by Clause 23(a) of the General Provisions are not to exceed $202,860.00.

I. The contract amount is hereby increased by $17,860.00, from $221,500.00 to $239,360.00 by reason of this modification. See Article III.

J. The Contract completion date is hereby changed from June 30, 1974 to June 30, 1975, by reason of this modification:

STATEMENT OF WORK
Modification 1 Contract HEW-OS-73-198
Microwave Link for Fairbanks, Alaska

This statement of work defines the necessary tasks required to establish a communications link between the Village Health Clinical Center in Fairbanks and the ATS-F earth terminal location.

1.0 Introduction

The Fairbanks, Alaska area will be supplied with one ATS-F transmitter and two ATS-F receivers. To provide optimum cost benefit from the ATS-F transmitter terminal, this facility will be time shared by the WAMI, Education, and Indian Health Service Experimenters. The transmitter will be co-located with the WAMI experimental facilities and interconnected by a communication link to the Indian Health Service Native Clinical Center.

2.0 Microwave Link

2.1 Definition

The required network is to be a Simplex transmission link originating at the Native Village Clinical Center and terminating at the facility housing the ATS-F transmitter. The system shall have sufficient bandwidth and power for one video channel (taso one grade) and one audio channel.

2.2 System Installation Plan

The contractor shall survey the terminal facilities and plan for the proper system installation. This plan shall include all facility modifications and ATS-F interface requirements.

2.3 System Approval

The contractor shall obtain frequency clearance and installation clearance from the required authorities.

2.4 System Plan

The contractor shall develop a feasibility plan with the information compiled in Par. 2.2 and 2.3, with cost and installation schedule.

2.5 Installation

Following the approval of the System Plan of Par. 2.4 the contractor or his subcontractor will complete the required installation.

2.6 Operational Period

The contractor shall provide for the network to be completed and operational during the period beginning ~~June 1, 1974~~ AUGUST 15, 1974 through June 30, 1975.

Delivery Requirements

1. System Installation Plan (5 copies) 1 June 1974
To comply with the requirements of Par. 2.2, 2.3 and 2.4.

2. One Simplex Microwave Link 1 June 1974.
To comply with the requirements of Par. 1.0, 2.4, 2.5 and 2.6.

3. Maintenance Responsibilities

Maintenance responsibilities for facilities shared by health and education experimenters at Galena and Tanana are being shared by health and education experimenters. The contractor is to provide the following services at these sites:

(1) maintenance of all education VHF systems;

(2) maintenance of all baseband video and audio systems and subsystems starting at the exterior of the health clinical facility leading to and terminating with the education facility systems; and

(3) provision of a utilization person to control, monitor, adjust and coordinate all required systems during the education experiment time periods. This person will be responsible for returning all systems to their original state following the end of the education experiment time period.

The contractor need not provide the following services in Galena and Tanana:

(1) maintenance of S-band earth terminals, antennas and sub-systems terminating with systems located with health facilities;

(2) maintenance of health VHF systems; and

(3) maintenance of systems housed within the health clinical buildings.

The contractor will provide maintenance services at the experimental facility at the University of Alaska in Fairbanks. It is anticipated that this contractor will use the services of KUAC-TV to assist in providing these services. This maintenance service will include the health microwave link and all ATS-F communication equipment in the facility.

The contractor will not be responsible for maintenance at the following experimental facilities: Fairbanks Clinical Center, Anchorage Health Facility, Fort Yukon Health Facility.

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	
2		489078	

5. ISSUED BY	CODE	6. ADMINISTERED BY (If other than block 5)	CODE
Department of Health, Education & Welfare, OS, Procurement/Contracts Section, Room 1741, HEW-N Bldg., 330 Independence Ave., S.W., Washington, D.C. 20201			

7. CONTRACTOR NAME AND ADDRESS (Street, city, county, state, and ZIP code)

CODE FACILITY CODE

State of Alaska
Office of the Governor
Office of Telecommunications
Pouch A, Juneau, Alaska 99801

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. HEW-OS-73-198

DATED 6-28-73 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. ACCOUNTING AND APPROPRIATION DATA (If required)

7553901 5-1990860 $36,500.00 Increase

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of Article XXXIX Limitation of Funds

It modifies the above numbered contract as set forth in block 12

12. DESCRIPTION OF AMENDMENT/MODIFICATION

The purpose of this modification is to increase the allotted funds available under this contract by $36,500.00. Therefore, this contract is modified as follows:

1. ARTICLE III - LIMITATION OF GOVERNMENT LIABILITY, parts A and B are deleted and the following is substituted:

"A. The Contractor is not authorized to make expenditures or to incur obligations, in performance of this contract, which exceed the following:

Two hundred thirty nine thousand three hundred sixty ($239,360)".

B. "The maximum amount for which the Government shall be liable if this contract is terminated is:

Two hundred thirty nine thousand three hundred sixty ($239,360)".

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 3 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR		17. UNITED STATES OF AMERICA	
BY C.M. Northrip (Signature of person authorized to sign)		BY Albert A Cutino (Signature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
C.M. Northrip , Satellite Experiment Coordinator	3/26/75	Albert A. Cutino	3/31/75

2. ARTICLE XIV - ESTIMATED COST (NO FEE)

Note: is deleted and the following is added: "Note: Only $239,360 is funded under this instant contract. Such funds are equal to the authorized level under this contract."

3. ARTICLE XV - SUBMISSION OF VOUCHERS/INVOICES, paragraph B is deleted and the following substituted:

"B. The estimated costs for this contract as contemplated by clause 23(A) of the General Provisions are not to exceed $239,360.00."

4. Neither the contract amount nor the contract completion date is changed by reason of this modification.

AGREEMENT

State of Alaska Office of the Governor
Office of Telecommunications
AND
Northwest Regional Educational Laboratory
710 S. W. Second Avenue
Portland, Oregon 97204

1. This Letter of Agreement is between the Northwest Regional Educational Laboratory, hereinafter referred to as NWREL, and the State of Alaska Office of the Governor, Office of Telecommunications, hereinafter referred to as the Office of Telecommunications.

2. General.

The Office of Telecommunications will enter into a grant agreement with the National Institute of Education for carrying out an experimental satellite program in Alaska known as Alaska ATS-F Experiment. The program is more fully described in that agreement, incorporated herein by reference, the terms of which control over the terms of this agreement in case of conflict, and in the grant application submitted to the National Institute of Education by the Office of Telecommunications August, 1973. This agreement becomes effective upon the execution of the grant agreement and not otherwise.

NWREL agrees to carry out this agreement in close cooperation with the Office of Telecommunications, consumer committees, the University of Alaska program production component, a copy of

whose Work Statement is attached to this agreement for reference purposes, and any other subcontractor that may be contracted with by the Office of Telecommunications in the ATS-F program.

3. Period of Performance.

The period of performance under this contract shall commence upon execution of the contract with the National Institute of Education for the Alaska ATS-F Experiment and shall expire 14 months thereafter. Performance may be extended for additional periods by the mutual written agreement of the parties.

4. Consideration.

This agreement provides for a cost advance and cost reimbursement contract with the Office of Telecommunications for 14 months. In full consideration of the NWREL's performance hereunder, the State shall pay the NWREL for its services the sum of not to exceed $220,457.00.
Funding for the period after July 1, 1974 will be contingent upon funding by the National Institute of Education of the U. S. Department of Health, Education and Welfare. This contract includes costs of salaries, benefits, offices, consultants selected by the NWREL, necessary transportation and per diem for the design staff and the cost of duplication of program documents for utilization by the producers and

consuming teachers, and indirect costs as determined by the agency designated by the U. S. Department of Health, Education and Welfare.

The proposal does not include any expenses for the consumer committees or their representatives, the production of programs, script writers or other activities not specified in this proposal.

The Office of Telecommunications shall provide advanced funding quarterly according to the following schedule:

On or about January 1, 1973	$59,302
March 1, 1974	59,302
July 1, 1974	50,926
September 1, 1974	50,927

All advances shall be payable contingent upon satisfactory performance of the work under this agreement to the date of payment.

Beginning with the March 1, 1974 payment and each quarter following, advance funding shall be issued based upon NWREL accounting of expenditures to date and an invoice requesting advance funding.

A final accounting of expenditures will be submitted by NWREL within 60 days after the termination of this agreement.

5. Work Statement

The NWREL will provide program designs as follows:

Program Designs	Target Group	No. of Lesson Designs
Early Childhood Education	Age 2-5	32 lessons
Basic Oral Communications	Age 5-7	64 lessons
Interactive Health	Age 8-10	64 lessons
	TOTAL	160 lessons

6. Specifications

Each program design will include the following:

a. Teachers's manual
   1) Program goals
   2) Program objectives
   3) Description of program contents

b. Lesson guides
   1) Lesson objectives
   2) Teaching activities
      a) Pre-lesson activities
      b) Viewing and interaction activities
      c) Follow-up activities
      d) Evaluation activities

c. Specifications for producer:
   1) Specifications for lesson objectives
   2) Specifications for teaching strategies and techniques
      a) Planned continuity and sequence
      b) Controlled vocabulary and concept development

3) Description of story events

4) Description of cultural setting

5) Description of characterizations

6) Description of illustrations

7) Essential dialogue

8) Specification of type of materials

   a) New materials

   b) Adapted materials

   c) Existing materials

It is agreed that the NWREL shall exercise high professional standards in developing the foregoing, subject at all times to review, approval, acceptance or rejection by the Office of Telecommunications; provided final program designs shall not be rejected if they are consistent with approval given NWREL by the Office of Telecommunications at the time final design is being prepared under paragraph 7.f of this agreement.

7. Procedure.

The Laboratory will use the following systematic procedure to prepare program designs:

a. Conduct a search to identify useful strategies, statements of goals and objectives, and materials which already exist.

b. Prepare a report on search results in the form of alternatives which the consumer committees can use in determining priorities.

c. Present alternatives to the consumer committees using a workshop process which facilitates the determination of priorities and selection of specific areas, characterizations and sequences desired.

d. Prepare preliminary drafts of the lesson in cooperation with consultants from Alaska whenever available.

e. Submit preliminary lesson designs to the consumer committees for approval.

f. Prepare final lesson designs in consultation with a representative native Alaskan designated by the consumer committees, and others that may be made available by the Office of Telecommunications.

g. Meet the work schedule as attached.

h. Consult with program producers to assure feasibility of program designs and accurate interpretation of program designs. In the event of disputes between NWREL and production components of the project, a decision shall be made by the Office of Telecommunications and its decision shall be final.

The major design work will take place in Alaska in an office to be established there by NWREL. Particular attention will be given to such requirements as bilingual and bicultural aspects of the program designs, as specified by the consumer committees.

B. Office of Telecommunications Committments.

The Office of Telecommunications agrees to:

a. Facilitate communication among the program designers, program producers, consumer committees, state agencies and others necessary to the work specified.

b. Provide for participation of script writers through the design effort.

c. Provide for all other costs of the project not included in this contract.

9. Copyrighted Material.

NWREL may designate the use of a minimum of pre-existing materials which are protected by copyright. It will be the responsibility of the NWREL to obtain clearance for the use of such materials for their use in the ATS-F Experiment and for their use for any other non-profit purpose in Alaska until July 1, 1980. Assurance of this clearance must be received before the final design is submitted to the Office of Telecommunications or such materials will be dropped from the design and appropriate substitutions will be specified. NWREL shall defend and hold the State of Alaska, its officers and employees, harmless from any legal action filed, or damages recovered, for wrongful use of copyrighted material if the material has been used as provided in this paragraph and, whenever use of material that is subject to a more limited copyright clearance has been approved in writing by the Office of Telecommunications, it has been used as provided in that clearance.

10. Consumer Committees.

The make-up of these committees has been established by the Office of Telecommunications, and all costs of, and arrangements for, the meetings of the committees are the responsibility of the Office of Telecommunications. NWREL shall provide for the travel and costs of its representatives at the committee meetings. The charge of these committees is to approve, disapprove, or alter the material presented to them at scheduled times by the NWREL. A representative of the Office of Telecommunications shall participate in committee meetings and the decision of the Office of Telecommunications or its representative shall be final in case of disputes over program materials. Nothing in this paragraph shall be interpreted to relieve the Office of Telecommunications of its responsibility for final acceptance or rejection of the materials developed.

11. Timeline.

DECEMBER 1973

a) Negotiate and sign contract

b) Select project director and staff

c) Establish program office in Alaska

JANUARY 1974

a) Complete searches

b) Prepare alternatives for the consumer committees

January 1974 - January 1975, as attached.

11. Additional Contract Provisions.

Appendix B attached hereto and made a part hereof sets forth additional general contract provisions of this contract. There is no Appendix A in this Agreement.

State of Alaska
Office of the Governor
Office of Telecommunications

By _____ Dec. 18, 1973
C. L. Buck, Director Date

Northwest Regional Educational Laboratory

By _____ Dec. 18, 1973
Date

February 28, 1974

Dr. Norman K. Hamilton, Director
Instructional Systems Development Div.
Northwest Regional Educational Lab.
400 Lindsay Building, 710 SW 2nd Ave.
Portland, Oregon 97204

Dear Dr. Hamilton:

Whereas Article A-11 (a) of the contract provides that the contracting officer "may at any time or times, by written order, make changes in the work to be performed under this contract...."

Whereas, the Office of Telecommunications was required to modify the total time anticipated for the educational programs;

Therefore, the contracting officer hereby modifies P. 4, section 5 of the contract and directs the Northwest Regional Educational Laboratory to produce 32 instead of the specified 64 programs for Basic Oral Language Development, with an appropriate increase in printed material associated with the programs, at no change in the cost of the total contract.

Sincerely,

C.L. Buck
Director
Office of Telecommunications

STATE OF ALASKA

WILLIAM A. EGAN, GOVERNOR

OFFICE OF THE GOVERNOR

OFFICE OF TELECOMMUNICATIONS

POUCH AC — JUNEAU 99811

Whereas, Article A-11 of Appendix B of the Contract of the Northwest Regional Educational Laboratory with the State of Alaska, Office of Telecommunications provides that the contracting office may, by written order, make changes in the work to be performed; and

Whereas, the Office of Telecommunications finds the following changes necessary and/or desirable; and

Whereas, the Northwest Regional Educational Laboratory agrees to the changes; therefore

The work statement for contract #1067 is hereby changed as follows:

1. Terminate all program design work for Early Childhood Education after September 1, 1974.
2. Additional work to be supplied, to include, producible scripts for all programs as follows:
   a. 32 Health Education programs
   b. 32 Basic Oral Language Development programs
3. Increase the original contract amount by $7,500 for the script-writing described above, and reduce original contract amount

by a total of $35,169, due to reduced funding received by the Office of Telecommunications from the National Institute of Education for FY 1975.

The net changes for the above modifications shall result in a decrease of $27,669. The last two payments to the Laboratory will therefore be:

1. $34,926
2. $23,258

making the full contract amount total $192,788.

Approved

10-31-74
Date

C.L. Buck, Director
Office of Telecommunications

Northwest
Regional
Educational
Laboratory

Lindsay Building · 710 S.W. Second Avenue
Portland, Oregon 97204 · Telephone (503) 224-3650

REC'D NOV 1 2 1974

REC'D NOV 1 2 1974

November 8, 1974

Mr. C. L. Buck, Director
Office of Telecommunications
Pouch AC
Juneau, Alaska

Subject: Contract Number 1067, Letter of November 1 and Amendment of October 31

Dear Mr. Buck:

Thank you for forwarding the proposed changes in the above-referenced contract. I am sorry to hear that you are suffering from the same tentativeness of NIE's funding that we are in many of our Programs.

We do find that the amendment to the contract is not acceptable for us to complete the work as specified for the amount of money allocated. More specifically, we hereby claim that an equitable adjustment must be made in the terms of the contract as modified by your change of October 31, 1974. This adjustment is necessary because the subject change eliminates funds for the Basic Oral Language Development Program without making corresponding adjustments in the work to be performed.

There are two alternatives which would make the work statements and dollars consistent:

1.0 Increase the contract price by the amount of $17,557, to a new total of $210,345.

2.0 Reduce the scope of the work that the Laboratory is to perform for the dollars indicated in the amendment. These work changes would include:

2.1 Reduction of five scripts for the health series

2.2 Reduction of nine scripts for the Basic Oral Language Development Program

2.3 Deletion of the second half of the teachers manual for both series

We are aware and appreciate the fact that you are pursuing resources to carry out the work in your amendment. However, without the resources we would not be able to perform the work as stated. In effect, without these resources it will be necessary for us to stop work as indicated and close the office in Anchorage on or about December 10, 1974. We have so notified our staff.

Again, we do appreciate your efforts and look forward to hearing from you about the resolution of the contract amendment in the very near future.

Very truly yours,

Robert R. Rath

Robert R. Rath
Assistant Executive Director

RRR/rmy

cc: Joe Jones
Norman Hamilton

Script finish 9,250

Manuals 1,250

10,500

1,500 extra for ... cost ...
for ... signs ...
... producers

STATE OF ALASKA / WILLIAM A. EGAN, GOVERNOR

OFFICE OF THE GOVERNOR

OFFICE OF TELECOMMUNICATIONS / POUCH AC — JUNEAU 99811

Whereas, Article A-11 of Appendix B of the Contract of the Northwest Regional Educational Laboratory with the State of Alaska, Office of Telecommunications provides that the contracting office may, by written order, make changes in the work to be performed; and

Whereas, the Office of Telecommunications finds the following change necessary and/or desirable; and

Whereas, the Northwest Regional Educational Laboratory agrees to the change; therefore

The work statement for contract #1067 is hereby changed as follows:

Increase the current contract amount by $10,500 for the completion of script writing for the Basic Oral Language Development and Health Education series and for preparation and delivery of teachers manuals for each of the two series.

The net change for the preceding modification shall result in an increase of $10,500. The last two payments to the Laboratory will therefore be:

1. $34,926

2. $33,758

making the full contract amount total $203,288.

Approved

Nov. 15, 1974
Date

C.L. Buck, Director
Office of Telecommunications

Whereas, Article A-11 of Appendix B of the Contract of the Northwest Regional Educational Laboratory with the State of Alaska, Office of Telecommunications provides that the contracting officer may, by written order, make changes in the work to be performed; and

Whereas, the Office of Telecommunications finds the following changes necessary or desirable; and

Whereas, the Northwest Regional Educational Laboratory agrees to the changes; therefore,

Contract #1067 is hereby extended through May 30, 1975, and the work statement is hereby changed to include:

The Northwest Regional Educational Laboratory shall provide consultation to the Office of Telecommunications and KUAC for the remainder of the production time for the Right On! health series and such other consultation, planning and administrative coordination activities as requested from time to time; and further,

NWREL shall provide the services of Holly Bruggeman for a period of no less than 45 work days from approximately March 1, 1975 through May 15, 1975; and further,

That Holly Bruggeman shall report to and be responsible for her professional activities to NWREL during the time of her employment.

It is further understood that:

NWREL shall also provide transportation and per diem up to two trips to Fairbanks and/or two trips to Juneau for Mrs. Bruggeman and incidental trips for Dr. Norman K. Hamilton for the purpose of supervision and consultation; and further,

NWREL shall be responsible for all employment costs associated with this amendment.

It is understood that this amendment is subject to the availability of Mrs. Bruggeman.

The cost extension shall be:

$11,637, payable upon invoice by NWREL within thirty (30) days after this date of signing.

s/ Charles K. Hart
Office of Telecommunications

March 10, 1975

AGREEMENT

State of Alaska, Office of the Governor
Office of Telecommunications
AND
The University of Alaska
Division of Media Services

(1) This Letter of Agreement is between the University of Alaska, Division of Media Services, hereinafter referred to as the University, and the State of Alaska, Office of the Governor, Office of Telecommunications, hereinafter referred to as the Office of Telecommunications.

(2) General

The State of Alaska is under contract to the U.S. Department of Health, Education, and Welfare (H.E.W.) to provide installation and maintenance of nineteen earth terminals and certain ancillary equipment to be used in the Alaska ATS-F satellite experiment.

Under terms of this agreement the University will provide installation and maintenance for specified equipment, associated with the ATS-F experiment in the Fairbanks, Alaska area.

The state has responsibility for the accomplishment of the work, described in this agreement, under letter contract HEW-OS-73-198, a copy of which is incorporated in this agreement by reference. The terms of contract HEW-OS-73-198 control over the terms of this agreement between the Office of Telecommunications and the University in case of conflict. This agreement becomes effective on its execution.

(3) Period of Performance

The period of performance of this contract shall commence upon its execution, and shall expire on June 30, 1975. Performance may be extended by mutual written agreement of the parties.

(4) Work to be Performed

The work to be performed by the University under terms of this agreement are described in the attached "Statement of Work". The University further agrees to provide a technician to perform emergency maintenance work at certain ATS-F terminals outside of Fairbanks when so requested by the Office of Telecommunications. Provided however, the request does not conflict with the primary work as described in the "Statement of Work", and that the Office of Telecommunications shall provide transportation costs, and expenses not to exceed the State of Alaska's per diem rate.

(5) Consideration

In consideration of the work to be performed by the University, the Office of Telecommunications shall provide advance funding according to the following schedule:

On or about March 1, 1974 - - - - - - - - - - - - - -	$41,409.95
July 1, 1974 -	21,407.43
November 1, 1974 - - - - - - - - - - - - - - - - - - -	21,407.48
Total	$84,224.86

Funds for the purchase and installation of the KUAC to Native Health Service Hospital microwave link will be advanced to the University if and when funds for that portion of the project have been released to the Office of Telecommunications by H.E.W.

(6) Equipment

Attention of the University is called to clause 11(b) of the general provisions to Contract HEW-01-73-198 whereby all property provided at Government expense remains the property of the Government.

In the event the federal government waives conflicting provisions of said clause, title to the following property will vest in the University of Alaska when they are no longer needed to accomplish the purpose of the ATS-F program.

video and audio distribution amplifiers
switching and patching equipment
video and waveform monitors
equipment racks
other equipment and material required for interface between the University studios and the ATS-F earth terminal equipment

Costs, if any, in securing title from the Federal Government shall be borne by the University.

(7) Inspection and Reports

The Office of Telecommunications retains the right to inspect, at reasonable times, all work performed by the University. The University shall submit to the Office of Telecommunications monthly progress reports covering installation completed, equipme on hand, and status of equipment required but not on hand. Copies of maintenance logs for each month of the experiment shall be forwarded to the Office of Telecommunications within 5 days of the end of each month.

(8) Additional Contract Provisions

Appendix B attached hereto and made a part hereof sets forth additional general contract provisions of this contract. There is no appendix A in this agreement.

State of Alaska
Office of the Governor
Office of Telecommunications

By _____
C.L. Buck, Director

Date April 8, 1974

University of Alaska

By _____
Don M. Dafoe, Executive Vice President

Date 3/30/74

53 0134

REC'D APR 0 8 1974

AGREEMENT

State of Alaska, Office of the Governor
Office of Telecommunications
AND
University of Alaska
Division of Media Services

1. This Letter of Agreement is between the University of Alaska, Division of Media Services, hereinafter referred to as the Division, and the State of Alaska, Office of the Governor, Office of Telecommunications, hereinafter referred to as the Office of Telecommunications.

2. General.

The Office of Telecommunications will enter into a grant agreement with the National Institute of Education for carrying out an experimental satellite program in Alaska known as Alaska ATS-F Experiment. The program is more fully described in that agreement, incorporated herein by reference, the terms of which control over the terms of this agreement in case of conflict, and in the grant application submitted to the National Institute of Education by the Office of Telecommunications August, 1973. This agreement becomes effective upon the execution of the grant agreement and not otherwise. The Division agrees to carry out this agreement in close cooperation with the Office of Telecommunications, consumer committees, the Northwest Regional Educational Laboratory design component, a copy of whose Work Statement is attached to this agreement for reference purposes, and any other subcontractor that may be contracted with by the Office of Telecommunications in the ATS-F program.

3. Period of Performance.

The period of performance under this contract shall commence upon execution of this contract and shall expire on June 30, 1975. Performance may be extended for additional periods by the mutual written agreement of the parties.

4. Consideration.

This agreement provides for a cost advance and cost reimbursement contract with the Office of Telecommunications for 16 months. In full consideration of the Division's performance hereunder, the State shall pay the Division for its services the sum of not to exceed $650,2[illegible]3.83. Funding for the period after July 1, 1974 will be contingent upon funding by the National Institute of Education of the U.S. Department of Health, Education and Welfare. This contract includes costs of salaries, benefits, offices, necessary transportation and per diem for the production staff and all costs provided for in paragraph 6, and indirect costs as determined by the agency designated by the U.S. Department of Health, Education and Welfare.

The Division will cease to perform under this contract after June 30, 1974 unless, or until, a notice, in writing, is received advising the Division of funding beyond June 30, 1974.

If no furtner funding is forthcoming, all obligations and expenditures incurred by the Division, through June 30, 1974, in the performance of this contract, will be reimbursed by the Department.

This contract does not include any expenses for the consumer committees or their representatives, the design of programs or other activities not specified in this contract.

The Office of Telecommunications shall provide advanced funding according to the following schedule:

March 1	$162,558.46
July 1	$162,558.46
Nov. 1	$162,558.46
March 1	$162,548.45

All advances shall be payable contingent upon satisfactory performance of the work under this agreement to the date of payment.

Beginning with the July 1 payment and each period following, advance funding shall be issued based upon the Division's accounting of expenditures to date and an invoice requesting advance funding. A final accounting of expenditures will be submitted by the Division within 60 days after the termination of this agreement.

5. Work Statement.

The University of Alaska, Division of Media Services, will provide the following completed programs:

Programs	No. of Programs
Early Childhood Education	32
Basic Oral Communications	32
Health Education	32

Teacher Training	32
Viewer Defined Programming	32
Total ------	160

The Division will provide the quantity of completed programs listed above, subject to the following:

A. If the Office of Telecommunications should order the halting of production on a particular program after a finished shooting script is done and production commenced, the Division may consider the program completed and will not furnish a replacement program;

B. If the Office of Telecommunications orders that a completed program not be transmitted over the satellite by the Division, the Division will not produce a replacement program;

Provided:

A. Any changes requested by the Office of Telecommunications comply with Article A-11 of Appendix B,

B. The Division has complied with the approved program designs furnished by the Northwest Regional Educational Laboratory,

C. Article 9 concerning copyright procedures has been adhered to.

6. Specifications.

The Division of Media Services will:

A. Design and build sets.

B. Provide:

1. Studio space and technical facilities for production of programs.

2. Video announce booth and technical facilities for interaction portion of instructional programs; studio space and technical facilities for interaction portion of Viewer Defined Programming.
3. Talent, production and technical personnel for production of programs and interaction periods following program.
4. Writers, graphic artists and production personnel completing Northwest Lab program design into a finished script.
5. Film crew, production and personnel and equipment for filming outside the studio.
6. Office space, work space and technical facilities for project production personnel.
7. Project coordination and administration for the Division's portion of the project, including secretarial support and accounting.
8. Facilities and technical staff for satellite transmission periods when the Division is to be the originating station.
9. Completed programs on color quad videotape with color helical videotape back-up.
10. Native language translations for early Childhood Education and Viewer Defined Programming.

It is agreed that the Division shall exercise high professional standards in developing the foregoing, subject at all times to review, approval,

acceptance or rejection by the Office of Telecommunications.

7. Procedure.

The Division will use the following systematic procedure in producing programs:

A. Develop shooting script from, and complying with, program designs provided by NWREL.

B. Develop programs on color quad videotape with helical back-up.

C. Make available videotape showing of selected completed programs for review by consumer committees.

D. In the event of disputes between the Division of Media Services, NWREL and the consumer committees, a decision shall be made by the Office of Telecommunications and its decision shall be final.

E. Meet the work schedule as attached.

F. Consult with program designers to assure feasibility of program designs and accurate interpretation of program designs. In the event of disputes between NWREL and production components of the project, a decision shall be made by the Office of Telecommunications and its decision shall be final.

8. Office of Telecommunications Commitments.

The Office of Telecommunications agrees to:

A. Facilitate communication among the program designers, program producers, consumer committees, state agencies and others necessary to the work specified.

B. Provide for all other costs of the project not included in this contract.

9. Copyrighted Material.

The Division shall use copyrighted material only to the extent it has been cleared for use by the Northwest Regional Educational Laboratory. A copy of each clearance will be provided to the Division.

10. Consumer Committees.

The make-up of these committees has been established by the Office of Telecommunications, and all costs of, and arrangements for, the meetings of the committees are the responsibility of the Office of Telecommunications. The Division shall provide for the travel and costs of its representatives at the committee meetings. The charge of these committees is to approve, disapprove, or alter the material presented to them at scheduled times by the NWREL and the Division. A representative of the Office of Telecommunications shall participate in committee meetings and the decision of the Office of Telecommunications or its representative shall be final in case of disputes over program materials. Nothing in this paragraph shall be interpreted to relieve the Office of Telecommunications of its responsibility for final acceptance or rejection of the materials produced.

11. Milestone Schedule.

The Division shall follow the Milestone Schedule, attached to and incorporated in this agreement.

12. Equipment.

Attention is called to Special Grant Terms and Conditions No. 6, a substitute for Standard Term and Condition No. 15, whereby all property provided at Government expense remains the property of the Government.

In the event the federal government waives conflicting provisions of said term and condition, title to said equipment and supplies will vest in the University of Alaska when they are no longer needed to accomplish the purpose of the ATS-F program. Costs, if any, of securing title from the federal government shall be borne by the Division.

13. Additional Contract Provisions.

Appendix B attached hereto and made a part hereof sets forth additional general contract provisions of this contract. There is no Appendix A in this Agreement.

STATE OF ALASKA
OFFICE OF THE GOVERNOR
OFFICE OF TELECOMMUNICATIONS

By C.L. Buck Date 3/18/74
C.L. Buck
Director

UNIVERSITY OF ALASKA

By Don M. Dafoe Date 3/18/74
Don M. Dafoe
Executive Vice President

1971

AGREEMENT

State of Alaska, Office of the Governor
Office of Telecommunications
AND
University of Alaska
Division of Media Services

1. This Letter of Agreement is between the University of Alaska, Division of Media Services, hereinafter referred to as the Division, and the State of Alaska, Office of the Governor, Office of Telecommunications, hereinafter referred to as the Office of Telecommunications.

2. General.

The Office of Telecommunications will enter into grant agreements with the National Institute of Education and with the Corporation for Public Broadcasting for carrying out an experimental satellite program in Alaska known as Alaska ATS-F Experiment. The program is more fully described in those agreements, incorporated herein by reference, the terms of which control over the terms of this agreement in case of conflict, and in the grant application submitted to the National Institute of Education by the Office of Telecommunications August, 1973. This agreement becomes effective upon execution of the above and not otherwise. The Division agrees to carry out this agreement in close cooperation with the Office of Telecommunications, consumer committees, the Northwest Regional Educational Laboratory design component, a copy of whose Work Statement is attached to this agreement for reference purposes, and any other subcontractor that may be contracted with by the Office of Telecommunications in the ATS-F program.

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3. Period of Performance.

The period of performance under this contract shall commence upon execution of this contract and shall expire on June 30, 1975. Performance may be extended for additional periods by the mutual written agreement of the parties.

4. Consideration.

This agreement provides for a cost advance and cost reimbursement contract with the Office of Telecommunications for 16 months. In full consideration of the Division's performance hereunder, the State shall pay the Division for its services the sum of not to exceed $625,001.83. The National Institute for Education will provide $583,355.51 of the above amount; and the CPB will provide $41,646.32. Funding for the period after July 1, 1974 will be contingent upon funding by the National Institute of Education of the U.S. Department of Health, Education and Welfare. This contract includes costs of salaries, benefits, offices, necessary transportation and per diem for the production staff and all costs provided for in paragraph 6, and indirect costs as determined by the agency designated by the U.S. Department of Health, Education and Welfare.

The Division will cease to perform under this contract after June 30, 1974 unless, or until, a notice, in writing, is received advising the Division of funding beyond June 30, 1974.

If no further funding is forthcoming, all obligations and expenditures incurred by the Division, through June 30, 1974, in the performance of this contract, will be reimbursed by the Department.

This contract does not include any expenses for the consumer committees or their representatives, the design of programs or other activities not specified in this contract.

The Office of Telecommunications shall provide advanced funding according to the following schedule:

March 1	$162,558.46
July 1	$162,558.46
Nov. 1	$149,947.46
March 1	$149,937.45

All advances shall be payable contingent upon satisfactory performance of the work under this agreement to the date of payment.

Beginning with the July 1 payment and each period following, advance funding shall be issued based upon the Division's accounting of expenditures to date and an invoice requesting advance funding. A final accounting of expenditures will be submitted by the Division within 60 days after the termination of this agreement.

5. Work Statement.

The University of Alaska, Division of Media Services, will provide the following completed programs:

Programs	No. of Programs
Early Childhood Education	32
Basic Oral Communications	32
Health Education	32

Teacher Training	32
Viewer Defined Programming	32
Total ------	160

The Division will provide the quantity of completed programs listed above, subject to the following:

A. If the Office of Telecommunications should order the halting of production on a particular program after a finished shooting script is done and production commenced, the Division may consider the program completed and will not furnish a replacement program;

B. If the Office of Telecommunications orders that a completed program not be transmitted over the satellite by the Division, the Division will not produce a replacement program;

Provided:

A. Any changes requested by the Office of Telecommunications comply with Article A-11 of Appendix B,

B. The Division has complied with the approved program designs furnished by the Northwest Regional Educational Laboratory,

C. Article 9 concerning copyright procedures has been adhered to.

6. Specifications.

The Division of Media Services will:

A. Design and build sets.

B. Provide:

1. Studio space and technical facilities for production of programs.

2. Studio space and technical facilities for interaction portion of Viewer Defined Programming and Teacher In-Service Training.
3. Talent, production and technical personnel for production of programs.
4. Writers, graphic artists and production personnel completing Northwest Lab program design into a finished script.
5. Film crew, production and personnel and equipment for filming outside the studio.
6. Office space, work space and technical facilities for project production personnel.
7. Project coordination and administration for the Division's portion of the project, including secretarial support and accounting.
8. Facilities and technical staff for satellite transmission periods when the Division is to be the originating station.
9. Completed programs on color quad videotape with color helical videotape back-up.
10. Native language translations for early Childhood Education and Viewer Defined Programming.

It is agreed that the Division shall exercise high professional standards in developing the foregoing, subject at all times to review, approval, acceptance or rejection by the Office of Telecommunications.

7. Procedure.

The Division will use the following systematic procedure in producing programs:

A. Develop shooting script from, and complying with, program designs provided by NWREL.

B. Develop programs on color quad videotape with helical back-up.

C. Make available videotape showing of selected completed programs for review by consumer committees.

D. In the event of disputes between the Division of Media Services, NWREL and the consumer committees, a decision shall be made by the Office of Telecommunications and its decision shall be final.

E. Meet the work schedule as attached.

F. Consult with program designers to assure feasibility of program designs and accurate interpretation of program designs. In the event of disputes between NWREL and production components of the project, a decision shall be made by the Office of Telecommunications and its decision shall be final.

8. Office of Telecommunications Commitments.

The Office of Telecommunications agrees to:

A. Facilitate communication among the program designers, program producers, consumer committees, state agencies and others necessary to the work specified.

B. Provide for all other costs of the project not included in this contract.

C. Provide studio space, technical facilities, and talent for interaction portion of instructional programs.

9. Copyrighted Material.

The Division shall use copyrighted material only to the extent it has been cleared for use by the Northwest Regional Educational Laboratory. A copy of each clearance will be provided to the Division.

10. Consumer Committees.

The make-up of these committees has been established by the Office of Telecommunications, and all costs of, and arrangements for, the meetings of the committees are the responsibility of the Office of Telecommunications. The Division shall provide for the travel and costs of its representatives at the committee meetings. The charge of these committees is to approve, disapprove, or alter the material presented to them at scheduled times by the NWREL and the Division. A representative of the Office of Telecommunications shall participate in committee meetings and the decision of the Office of Telecommunications or its representative shall be final in case of disputes over program materials. Nothing in this paragraph shall be interpreted to relieve the Office of Telecommunications of its responsibility for final acceptance or rejection of the materials produced.

11. Milestone Schedule.

The Division shall follow the Milestone Schedule, attached to and incorporated in this agreement.

12. Equipment.

Attention is called to Special Grant Terms and Conditions No. 6, a substitute for Standard Term and Condition No. 15, whereby all property provided at Government expense remains the property of the Government.

In the event the federal government waives conflicting provisions of said term and condition, title to said equipment and supplies will vest in the University of Alaska when they are no longer needed to accomplish the purpose of the ATS-F program. Costs, if any, of securing title from the federal government shall be borne by the Division.

13. Additional Contract Provisions.

Appendix B attached hereto and made a part hereof sets forth additional general contract provisions of this contract. There is no Appendix A in this Agreement.

STATE OF ALASKA
OFFICE OF THE GOVERNOR
OFFICE OF TELECOMMUNICATIONS

By _____ Date 7/23/74
C.L. Buck
Director

UNIVERSITY OF ALASKA

By _____ Date 7/16/74
Don M. Dafoe
Executive Vice President

STATE OF ALASKA
WILLIAM A. EGAN, GOVERNOR
OFFICE OF THE GOVERNOR
OFFICE OF TELECOMMUNICATIONS / POUCH AC — JUNEAU 99811

Whereas, Article A-11 of Appendix B of the Contract of KUAC with the State of Alaska, Office of Telecommunications provides that the contracting office may, by written order, make changes in the work to be performed; and

Whereas, the Office of Telecommunications finds the following changes necessary and/or desirable; and

Whereas, KUAC agrees to the changes; therefore

The work statement for contract #1068 is hereby changed as follows:

1. Terminate all program production work for Early Childhood Education after July 1, 1974.
2. To include additional graphics construction for the instructional series (Health Education and Basic Oral Language Development) for an amount not to exceed $1,000.
3. Effective July 15, 1974 terminate script writing activity for the instructional series (Health Education and Basic Oral Language Development), with a corresponding reduction of $8,500 in the contract amount.

4. Reduce original contract amount by a total of $90,038, due to reduced funding received by the Office of Telecommunications from the National Institute of Education for FY 1975.

The net changes for the above modifications shall result in a decrease of $97,538. The last two payments to KUAC will therefore be:

1. $149,947.46
2. $ 52,399.45

making the full contract amount total $527,463.83.

APPROVED

10-31-74
Date

C.L. Buck, Director
Office of Telecommunications

STATE OF ALASKA
JAY S. HAMMOND, Governor
OFFICE OF THE GOVERNOR
OFFICE OF TELECOMMUNICATIONS / POUCH AC — JUNEAU 99811

Whereas, Aritcle A-11 of Appendix B of the Contract of KUAC with the State of Alaska, Office of Telecommunications provides that the contracting office may, by written order, make changes in the work to be preformed; and

Whereas, the Office of Telecommunications finds the following changes necessary and/or desireable; and

Whereas, KUAC agrees to the changes; therefore

The work statement for contract # 1068 is hereby changed as follows:

Increase the current contract amount by $28,920 for completion of production for the Basic Oral Language Development Series.

The net changes for the preceding modification shall result in an increase of $28,920. The final payment to KUAC will therefore be $81,319.45, making the full contract amount $556,383.83.

APPROVED:

Charles M. Northrip

3/26/75

Date

AGREEMENT

1. This Letter of Agreement is between the University of Alaska, Division of Media Services, (hereinafter referred to as the Division) and Mr. Josef E. Princiotta of Anchorage, Alaska.

2. The Division is under contract to produce ninety-six (96) instructional programs according to designs provided by the Northwest Regional Educational Laboratory (hereinafter referred to as N.W.R.E.L.). Each program will employ the use of puppets which have been conceptualized and approved by consumer committees (as outlined in the Alaska Telecommunications Program Plan, March, 1974) charged with overseeing each series' design. The parties to this Agreement agree to cooperate with the Office of the Governor of the State of Alaska, Office of Telecommunications; consumer committees; the N.W.R.E.L.; and other subcontractors whose work in the ATS-6 Project may be relevant to this Agreement.

3. The period of performance under this Agreement shall commence upon its execution, and shall expire on June 30, 1975. Performance may be extended for additional periods by the mutual written agreement of the parties.

4. In full consideration of Mr. Princiotta's performance hereunder, the Division shall pay Mr. Princiotta for his services the sum of $14,440. Of this amount $5,000 will be paid on commencement of this contract by Princiotta, and funding of the balance will be contingent upon funding by the

Office of the Governor of Alaska, Office of Telecommunications for FY 1975. This amount of payment ($14,440) includes the cost of salaries, benefits, studio and other work space, necessary materials and equipment, transportation, expenses, the delivery and training sessions to be held in Fairbanks, and all other direct and indirect costs associated with Princiotta's performance of this Agreement. The Division will provide funding to Mr. Princiotta according to the following schedule:

$5000.00 - upon commencement of the work of this Agreement.

$5000.00 - upon scheduled delivery of all puppets in Fairbanks and their acceptance by the Office of Telecommunications.

$4440.00 - upon the conduction of a course of training which is satisfactory to the Division. Such training shall be held in Fairbanks no later than 35 days from the date of receipt of the first payment by Mr. Princiotta, as outlined in this Agreement. The course shall be for the purpose of training puppeteers provided by the Division in the operation of the puppets.

All payments shall be payable contingent upon satisfactory performance, as judged by the Division, of the work under this Agreement to the date of payment.

5. Mr. Princiotta will provide the following "performance-ready" puppets approved as satisfactory by the Office of Telecommunications, which approval shall not be unreasonably withheld.

(a) MOOSE. One realistic-looking moose-puppet with rack, fur, authentic coloring, two front legs with hooves, a movable mouth, and blinking eyes. The legs shall be pliable to hold any given set position without dangling,

and shall be operated through the use of rods connected to the hooves.

(b) BEAVER. One realistic-looking beaver-puppet with a movable mouth and tail, buck teeth, and blinking eyes. Both MOOSE and BEAVER shall be of a scale which will allow them to interact with a human character without distracting dissimilarity in size.

(c) GERM. One villianous-looking puppet of unspecified size or shape which will have a movable mouth and eyebrows. It shall be red.

(d) PUPPET 1. One hand puppet which may be dressed differently to provide as many characters as costumes. His head shall have a movable mouth and his hands shall be able to hold a miniature microphone, provided with the puppet, but removab He shall be colored an unrealistic color for humans: green, purple, bright yellow, orange, etc. His hands shall be controlled through the use of rods, and his face shall be constructed to allow the change of features except for the mouth.

(e) PUPPET 2. One hand puppet similar in design to PUPPET 1, including a movable mouth and an unrealistic color. Colorin shall be of a different hue and gray-scale value such that it is readily visually distinguishable from PUPPET 1 on a black and white television receiver.

(f) CAMERAMAN. One puppet similar in appearance to PUPPETS 1 and 2 above, with a representational television camera attached to him. His face will not be seen, being permanent

hidden by the viewfinder mask on the camera. He shall be an unrealistic color, shall have movable arms, and shall be constructed in such a manner as shall facilitate clothing changes and any other such changes as will best facilitate changes of character.

(g) PROPPER T. OTTER. One puppet which shall have the appearance of a cartoon version of a twin otter airplane. It shall have a movable mouth and wings. It shall have a masculine character and shall be designed for chromakey blue television production.

(h) GERTRUDE GOOSE. One puppet which shall have the appearance of a cartoon version of a Grumman Goose airplane. It shall have a feminine character and shall be designed for chromakey blue television production.

(i) TORA. One Astro-child puppet, which shall have human characteristics, but shall indicate otherworldliness by dress, shape, or strangeness of features. TORA shall be capable of smiling, frowning, clapping hands, pointing, holding things (though not of picking them up), and nodding the head "yes" or "no." TORA shall have a feminine appearance.

(j) ZEON. One Astro-child puppet, which shall have human characteristics, but shall indicate otherworldliness by dress, shape, or strangeness of features. ZEON shall be capable of smiling, frowning, clapping hands, pointing, holding things (though not of picking them up), and nodding the head "yes" or "no." ZEON shall have a masculine appearance.

(k) ROD-DOD. One robot-style puppet which shall not make

facial expressions, but shall be able to smile, frown, clap, point, hold things, and nod "yes" or "no." ROD-DOD shall have blinking lights with variable frequency and intensity that can be used to show general moods such as excitement, puzzlement, etc.

(1) LITTLE YELLOW FELLOW. One doll-like puppet approximately twelve to eighteen inches tall, which shall have a comical, happy appearance, and shall be predominantly yellow.

6. The general provisions governing the construction, delivery, and maintenance of the puppets specified in this Agreement shall be:

(a) that each puppet shall be designed for operation by no more than one puppeteer;

(b) that all ancillary equipment necessary and proper for the normal operation of each puppet will be supplied with the delivery of puppets to Fairbanks by Mr. Princiotta, including but limited to the chromakey blue hoods and masks, all necessary electronics, costume changes and facial feature changes for PUPPETS 1 and 2 and CAMERAMAN;

(c) that Mr. Princiotta will exercise high professional standards in developing the foregoing materials and services;

(d) that further descriptions of the required puppets are attached and shall supercede the descriptions above in cases of incompatibility. The attached descriptions were designed by N.W.R.E.L. and approved by the consumer committees.

7. Mr. Princiotta agrees to deliver the puppets herein described and named TORA, ZEON, and ROD-DOD to the Division on or before the eleventh day from the date of Mr. Princiotta's receipt

of first payment as outlined in this Agreement; and to deliver the remaining puppets herein described on or before the twentieth day from the date of Mr. Princiotta's receipt of first payment as outlined in this Agreement. Furthermore, Mr. Princiotta agrees to make himself available to intensively train the Division's puppeteers, in the Division's Fairbanks studios, to assure a level of performance satisfactory to the Division. Such training shall take place at the earliest mutually acceptable, but not later than thirty-five days from the date of Mr. Princiotta's receipt of first payment as outlined in this Agreement. Furthermore, Mr. Princiotta agrees to perform maintenance and upkeep on the puppets satisfactory to the Division, for a period to extend from delivery through June 30, 1975; such services are required as will maintain the appearance and functions at a reasonably acceptable level. Mr. Princiotta shall not be responsible for any repair beyond that which becomes necessary through normal wear and tear.

8. Mr. Princiotta agrees to produce one royalty-free full color illustration and one royalty-free line drawing of each of the puppets described in this Agreement. All illustrations and drawings shall be delivered to N.W.R.E.L. in Anchorage on or before the thirtieth day from Mr. Princiotta's receipt of first payment as outlined in this Agreement.

9. All rights to all puppets, sketches, drawings, illustrations, ancillary equipment, and costuming included in this Agreement shall be the sole property of the Office of the Governor of

Alaska, Office of Telecommunications.

10. The Division guarantees to include screen credit for Mr. Princiotta as designer/constructor of puppets in any program which includes an appearance by any one of the puppets produced under this Agreement. Credit shall read, "Puppets designed and built by Josef Princiotta," or such revision as is mutually agreeable. If credit appears in a "crawl" it shall appear on screen for at least four seconds; if credit appears in a stationary form, it shall appear on screen for at least two seconds.

11. Each and every clause and condition herein contained shall be binding upon the heirs, executors, administrators and successors of all the parties hereto.

Dr. Don M. Dafoe
Executive Vice President
University of Alaska
Fairbanks, Alaska

Mr. Josef E. Princiotta

This day June 27 1974

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

NEGOTIATED CONTRACT

CONTRACT NO. 400-75-0002

PAGE 1 OF 11 PAGES

NEGOTIATED PURSUANT TO 41 USC 252(c)(15)

TYPE OF CONTRACT Fixed Price

ISSUING OFFICE
DHEW/National Institute of Education
Contract/Grants Management Division
Washington, D. C. 20208

CONTRACT FOR
Alaska ATS-VI Health/Education Telecommunication Experiment

CONTRACTOR (Name and Address)
Office of Telecommunications
Office of the Governor of Alaska
Pouch AC
Juneau, Alaska 99801

ACCOUNTING AND APPROPRIATION DATA
Trans. No. N/A Obj Code 41.45
Approp 7551296 PAR
CAN B005152 OE Vend. 600904
FCR PT-75-0004

PLACE OF PERFORMANCE
State of Alaska

CONTRACT AMOUNT
$609,198

MAIL VOUCHERS TO
As Above

SPONSOR
Productivity and Technology Division

EFFECTIVE DATE
July 1, 1974

EXPIRATION DATE
September 30, 1975

CONTRACTOR REPRESENTS

1. That it ☐ is, ☒ is not, a small business concern. If he is a small business concern and is not the manufacturer of the supplies to be furnished hereunder, he also represents that all such supplies ☐ will, ☐ will not, be manufactured or produced by a small business concern in the United States, its possessions, or Puerto Rico. (A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is contracting and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration.) (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed definitions and related procedures.)
2. That it is a ☐ REGULAR DEALER IN, ☐ MANUFACTURER OF, the supplies covered by this contract
3. That it is an ☐ INDIVIDUAL, ☒ STATE OR LOCAL AGENCY, ☐ PARTNERSHIP, ☐ JOINT VENTURE, ☐ NON-PROFIT, ☐ EDUCATIONAL INSTITUTION, ☐ CORPORATION organized and existing under the laws of the state of

The Contractor agrees to furnish and deliver all supplies and perform all the services set forth in the attached Special Provisions, for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the Special Provisions and the General Provisions. To the extent of any inconsistency between the Special Provisions or the General Provisions and any specifications or other provisions which are made a part of this contract, by reference or otherwise, the Special Provisions and the General Provisions shall control. To the extent of any inconsistency between the Special Provisions and the General Provisions, the Special Provisions shall control.

IN WITNESS WHEREOF, the parties hereto have executed this contract on the day and year last specified below.

State of Alaska Office of Telecommunications NAME OF CONTRACTOR	UNITED STATES OF AMERICA
BY C. L. Buck SIGNATURE OF AUTHORIZED INDIVIDUAL	BY Martin H. Duby SIGNATURE OF CONTRACTING OFFICER
C.L. Buck TYPED NAME	Martin H. Duby TYPED NAME
TITLE Director	AUG 20 1974 DATE
August 8, 1974 DATE	

MEMORANDUM State of Alaska

TO: William A. Egan
Governor

DATE: July 26, 1974

FILE NO:

TELEPHONE NO:

FROM: C.L. Buck
Director
Office of Telecommunications

SUBJECT: NIE funding of ATS-6 Experiments for FY 1975

The FY 1975 funding for the ATS-6 Alaska Experiments were projected at the start of the program to be $840,000. The Department of Health, Education and Welfare through the National Institute of Education (NIE) acknowledged this projected cost. In mid-June of this year NIE scheduled a negotiation meeting in Washington, D.C. At this time I was advised informally by Mr. Ray Wormwood, Contracting Officer for NIE, that it would be well for me to participate personally in the contract negotiations. Accordingly, Dr. Northrip and I traveled to Washington in late June.

Upon meeting with Dr. Lawrence Grayson and Mr. Wormwood for what we expected to be a more or less routine contract negotiation session, we were informed that two of the three scheduled educational program series were to be dropped from the experiment. This was the first indication we had had that any such action was contemplated. The action was taken, according to Dr. Grayson, as a result of a site survey conducted by a group of visiting experts from the south 48 who expressed serious doubts about the quality and effectiveness of the programs. The two series to be eliminated were Early Childhood Education (aimed at pre-school Native children) and Basic Oral Language Development (for first grade classroom use).

We took strenuous objection to NIE's proposal to eliminate these programs because everyone familiar with the series is convinced that they are excellent and, even more to the point, the programs were conceived, designed and produced by Alaskans, in Alaska and for Alaskans. As the result of our objections, Dr. Grayson agreed to a review of those two programs. That review is presently underway and will be covered in a separate memo. Results of the review have been promised by NIE no later than August 30, 1974. Tied to the results of the review is a sum of $100,000. If the review is favorable, the programs will be allowed to continue and the $100,000 will be added to the 1975 funding.

Following the June meeting with NIE our budget for 1975 was reworked to reflect the provisional status of the $100,000 and the total request excluding the $100,000 was reduced to $680,000, a figure we understood was acceptable to NIE. This revised budget was submitted to NIE on July 15, 1975.

On Friday July 19, 1974 I received a telephone call from Dr. Grayson informing me that they had received our revised budget but that there seemed to be some misunderstanding since NIE was willing to fund only $550,000, not $680,000. Neither Dr. Northrip, Guy Martin (who participated in nearly all the sessions with NIE), nor I, had any record or recollection of the $550,000 figure being advanced.

The $550,000 figure would represent a 25% reduction in the original 1975 funding, a reduction that would obviously seriously handicap the entire project.

In his July 19th telephone call, Dr. Grayson requested an early negotiation meeting in Washington. In view of the planned RCA demonstration at Princeton, New Jersey on July 24, meetings were scheduled with NIE on July 23 and July 25, 1975.

The result of these meetings was our acceptance of a final figure of $609,198 for FY 1975. This is in effect a cut back of nearly 18% and is certain to have an adverse effect upon the program, but in view of the inflexible attitude of Dr. Grayson we had no alternative but to accept. The contract for 1975 is now being prepared by NIE and should be available for signing by August 2, 1975. Again, Guy Martin participated in these sessions with NIE and was extremely helpful. He will review the contract before it is signed.

August 5, 1974

The Honorable Mike Gravel
United States Senate
Room 1251, New Senate Office Bldg.
Washington, D.C. 20510

Dear Mike:

A contract has recently been negotiated between my Office of Telecommunications and the National Institute of Education totaling $609,198 for Fiscal Year 1975 Alaska ATS-6 funding. That figure represents a reduction of $131,000 from NIE's projected FY 1975 payment to Alaska and will severly strain the project's ability to operate as it should. Nevertheless, the importance of the information to be gained from the experiment has led to the acceptance of this amount.

In addition to the above reduction, however, one further matter of negotiation between the Office of Telecommunications and NIE concerns me greatly. NIE has refused to fund two of the most vital instructional programs (Early Childhood Education and Basic Oral Language Development) planned for ATS-6 until the programs successfully pass an educational design review currently being conducted by NIE.

Both programs have been a part of ATS-6 planning since early 1973. Both have been modified and approved by consumer committees composed of rural village residents and teachers who will utilize them. In fact, village representatives actually selected the objectives and format of each program. My concern is that if the programs are cut at this time - after approval and anticipation of Alaska's Native people - they will conclude that their participation in the ATS-6 planning process was only a futile exercise. Copies of the review documents for both of the programs are available at Guy Martin's office in Washington, 655 "C" Street, N.E., Washington, D.C. 20003. I hope you will review the documents and inform NIE of your views regarding the programs. Dr. Arthur Melmed, of the National Institute of Education, has responsibility for all ATS-6 projects.

The real issue is the acceptability of the programs to those who will use them. That acceptance is already an accomplished fact. To deny the programs now would, in my view, be a great breach of faith with the Alaskan people who have participated in bringing the programs into being.

I will appreciate your comments after your own review of the material and I urge you to communicate your own evaluations of the programs to Dr. Helmed.

Sincerely,

William A. Egan
Governor

WAE/kh
cc: Chuck Buck
Office of Telecommunications

Jerry Williams, Esq.
Department of Law

Guy Martin, Esq.
Washington, D.C.

Identical letters to:
Senator Ted Stevens
Representative Don Young

September 26, 1974

Dr. Arthur Melmed
National Institute of Education
Code 600
Washington, D.C. 20202

Dear Dr. Melmed:

In late August we were informed by Dr. Larry Grayson of NIE's decision not to continue support for the Early Childhood Education segment of the Alaska ATS-6 project. The amount of money in question is $45,000.

This office communicated NIE's decision with regard to Early Childhood Education to the Early Childhood Education, Basic Oral Language Development, and Health Education consumer committees at their combined meeting on September 5 and 6 in Juneau. The attached resolutions were composed by the Early Childhood Education committee and concurred in unanimously by the combined consumer committee meeting on September 6, 1974.

Throughout the ATS-6 project in Alaska we have attempted to pay close and careful attention to the needs, desires, and indeed demands of the rural residents who are to be the recipients of the ATS-6 programming. The consumer committee reaction was, in our view, a predictable one since the committee had such a strong hand in developing the material for the program series. We are proceding to search for other sources and funds (thus far unsuccessfully) in order to reinstate the Early Childhood Education program within the Alaska ATS-6 project. We have discussed this action with Dr. Grayson and he has voiced his approval of such an approach.

Early this month Dr. Grayson informed us of the possibility that NIE would be unable to follow through on its decision to fund the additional $55,000 necessary to produce the Basic Oral Language Development programs. These programs passed a second NIE content review

and we were told they would be funded in a phone call from Dr. Grayson in late August. It is our feeling that the reaction of the consumer committee to such news about Basic Oral Language Development would be even stronger and more severe and more critical of NIE than the reaction we experienced from the Early Childhood Education experience.

We sincerely hope that NIE will be able to fund the Basic Oral Language Development series within the Alaska ATS-6 project. We are presently allowing the program to proceed so that it can meet its scheduled air date of October 7, 1974. We will have to stop all work on the program shortly after that date if we are not assured of adequate funding to continue. Even our present actions with regard to the program may seriously jeopardize progress in other areas.

Sincerely,

C.L. Buck
Director

Enclosure

RECD SEP 16 1974

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

NATIONAL INSTITUTE OF EDUCATION

WASHINGTON, D.C. 20208

September 12, 1974

Dr. Charles L. Buck
Director
Office of Telecommunications
Office of the Governor
State of Alaska
Pouch AC
Juneau, Alaska 99801

Dear Dr. Buck:

I received your letter of August 30 this afternoon. It took 13 days to reach me, even though it was sent air mail. For important correspondence I suggest you send a copy by facsimile and follow with the originals through the mails.

As I mentioned in our telephone conversation on September 3, NIE's decision to support the Basic Oral Language Development effort has been temporarily suspended. Even though the programming appears to be beneficial for the people of Alaska, NIE must await a resolution of its FY 1975 appropriation before we can commit any additional monies to the program.

I have no objections to your seeking, as you suggest, funds from sources other than NIE in order to complete the Early Childhood Education effort. In fact, I would suggest, because of the uncertainty of the level of NIE's appropriation, that you also seek funding for the Basic Oral Language Development component.

I will inform you of NIE's decision as soon as it is made.

Sincerely yours,

Lawrence P. Grayson

Lawrence P. Grayson
Program for Productivity
and Technology

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
NATIONAL INSTITUTE OF EDUCATION
WASHINGTON, D.C. 20208

OCT 9 1974

Dr. Charles L. Buck
Director
Office of Telecommunications
Office of the Governor
State of Alaska
Pouch AC
Juneau, Alaska 99801

Dear Dr. Buck:

I appreciate receiving your early letter of September 26, with the attached resolutions from your Early Childhood Consumer Committee. While the committee's sentiments are to be expected after having spent a great deal of time and energy in the development of the programs, it is helpful to know the strength of their commitment in asking your Office of Telecommunications to seek funds from sources other than NIE to continue the development of the programs.

I fully concur in Dr. Grayson's encouragement that you continue to seek the necessary remaining funds in order to meet the desires of the people of Alaska.

With regard to the Basic Oral Language Development programs, NIE expects to complete the support for that effort with an additional sum of approximately $55,000, if NIE receives an adequate appropriation this year. At the moment, we are zero-budgeted, so we are not in a position to move forward with funding commitments. Since it begins to appear that Congress will adjourn without acting on our appropriation and will not re-convene till November 12, we may not be able to give you further information till then.

I know the difficulty that you confront in deciding to proceed for a short time with limited production of the Basic Oral Language Development programs. This is a decision that you have made, with the understanding that NIE may not reimburse the Office of Telecommunications for any funds spent in connection with that production. Your present contract with NIE specifically excludes payment for the production of the Basic Oral Language Development programs, but will support the production of the programs for the Alaska Native Magazine, health education and teacher training.

As soon as the NIE appropriation is resolved, Dr. Grayson will be in contact with you to let you know how we will proceed.

Sincerely yours,

A. S. Melmed

Arthur S. Melmed
Acting Associate Director
for Programs

2	07/01/74	PR 75 4002	
ISSUED BY CODE		6. ADMINISTERED BY (If other than block 5) CODE	

W/National Institute of Education
tracts & Grants Mgmt. Div., Room 720A
ew Building, 1832 M Street, N.W.
hington, D.C. 20208

CONTRACTOR CODE FACILITY CODE

NAME AND ADDRESS

Office of Telecommunication
Office of the Governor of Alaska
Pouch AC
Juneau, Alaska 99801
Attn: Mr. Marvin Weatherly

8. ☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. 400-75-0002
DATED 08/15/74 (See block 11)

THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE JOB SITE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

ACCOUNTING AND APPROPRIATION DATA (If required)				
p/ 7551296	Obj Code/ 25.32	Trans. No.	NIH Payment__	AMOUNT
N/ B005152	Prog. Office/ P/P&T	NIH Vendor	NIE Payment__	$55,546. Increase
		CRS # 1690250001-		

THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____
The Changes set forth in Block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 41 USC 252(c)(15)
It modifies the above numbered contract as set forth in block 12.

DESCRIPTION OF AMENDMENT/MODIFICATION

This Modification is issued to accomplish the following:

1. CONTENTS OF CONTRACT: (Page 2 of 11 pages)

   Item 2: Special Provisions:

   Add - ARTICLE XVIII - SALARY CEILING

2. To revise SPECIAL PROVISIONS ARTICLES, as follows:

   A. ARTICLE I - SCOPE OF WORK

      1. To increase the Scope of Work to include the activities set forth in the Contractor's submission of July 12, 1974, as revised July 25, 1974, in regards to Work Statements and Milestone Schedules relating to the Basic Oral Language component, which are incorporated herein by reference and made a part hereof. (previously excluded in basic contract).

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 3 COPIES TO ISSUING OFFICE

15. NAME OF CONTRACTOR/OFFEROR	17. UNITED STATES OF AMERICA
Marvin Weatherly (Signature of person authorized to sign)	BY Raymond F. Wormwood (Signature of Contracting Officer)
15A. NAME AND TITLE OF SIGNER (Type or print) Marvin Weatherly, Director	15B. DATE SIGNED 2/11/75
18. NAME OF CONTRACTING OFFICER (Type or print) Raymond F. Wormwood	19. DATE SIGNED 1/75

B. ARTICLE IV - KEY PERSONNEL

	NAME	POSITION
1. Delete	"Charles L. Buck"	"Director"
Substitute	"Marvin Weatherly"	"Director"

C. ARTICLE VIII - CONSIDERATION, INVOICING AND PAYMENT

1. Consideration:

Delete: "The total cost to the Government is $609,198.-"
Substitute: "The total cost to the Government is $664,744.-"

3. To add the following Additional ARTICLE:

ARTICLE XVIII - SALARY CEILING

By the execution of this modification/revision, the contractor/grantee certifies that no employee of the center currently is being compensated directly or indirectly, in whole or in part from Federal funds at an annual salary in excess of that equal to Level V of the Executive Schedule under Section 5316 of Title 5 USC (currently $36,000). This limitation will be applied to the employee's "gross salary" as currently defined and will not be modified unless Section 5316 is subsequently amended or unless the provisions of the 1975 DHEW Appropriations Act P.L. 93-517 is amended or rescinded. Failure of the contractor/grantee to comply with this provision will constitute grounds for termination of this contract/grant. Any disputes as to questions of fact which may arise hereunder shall be subject to the "Disputes" Clause of this contract/grant.

4. All other Terms and Conditions remain unchanged.

MEMORANDUM State of Alaska

TO: Jim Fennel
Fiscal Officer

DATE: September 18, 1974

FILE NO:

TELEPHONE NO:

FROM: C. L. Buck
Director
Office of Telecommunications

SUBJECT: Invoice from Glen Mills Construction

Our ATS-6 terminal for Valdez had originally been scheduled for installation at the Cable TV office, and we could see no problem in completing the installation by the time transmissions were to begin this week. However, late last month the Cable TV company decided to re-locate, and this necessitated our finding an alternate site for the terminal equipment on very short notice.

In a series of phone calls, our Technical Manager, Ted McIntire, determined that the only two available contractors to do the required construction work in Valdez were Mills Construction Company and Calhoun Construction Company. Both companies were sent drawings of the platform that needed to be build and were asked to submit their bids by telephone. The bid from Calhoun was $3,200, and the bid from Mills was $2,100.

We told Mills to go ahead with the construction, and the work was completed to our satisfaction within the timeframe allowed. Their invoice and supporting documents are attached.

MEMORANDUM State of Alaska

TO: Marian Hellen
Fiscal Officer
Office of the Governor

DATE: January 30, 1975

FILE NO:

TELEPHONE NO:

FROM: Dr. Charles M. Northrip
Satellite Experiment Coordinator
Office of Telecommunications

SUBJECT: Attached bills from WIRE Communications, Inc.

This memo is intended as justification for paying the charges incurred by the office with WIRE Communications, Inc., a commercial communications firm which was contracted with to install the Valdez and Yakutat ATS-6 satellite communications earth terminals.

The ATS-6 experiment installation schedule should have started in November of 1973. All earth station equipment for the ATS-6 project, however, was procurred for the Alaska Office of Telecommunications by the U.S. Department of Health, Education and Welfare. These government supplied pieces of equipment did not begin to arrive anywhere near the scheduled time. No equipment was available for installation until spring of 1974. Some essential pieces of equipment for certain earth terminals were not available until late August and September of 1974. Instead of the equipment coming in phased amounts so that the Office of Telecommunications' technical staff could handle all installations on a reasonable and scheduled basis, large amounts of equipment were received over brief periods of time and all too close to the beginning of ATS-6 programming in September of 1974. It was impossible for the Office of Telecommunications to install all earth terminals with its own staff.

It was similarly impossible to line up commercial firms to assist in installations until equipment was on hand and available. Such was the case with the Valdez and Yakutat earth terminals. Since they were in the southern part of the state and easily accessed, the Office deferred those installations until last. When the equipment necessary arrived, all technicians of the Office of Telecommunications staff were occupied elsewhere in the installation of earth terminals.

It was determined that WIRE Communications, Inc., in addition to being the only firm available to do the kind of installation work the office required, also at that time had installation crews at work in Valdez installing communications equipment for RCA Alaska Communications. It was therefore determined that travel expenses and other associated outlays could be minimized by utilizing WIRE Communications, Inc.'s services.

A PROPOSAL

FOR SUPPORT OF TECHNOLOGICAL EXPERIMENTS SCHEDULED BY THE STATE OF ALASKA IN CONNECTION WITH THE PUBLIC BROADCASTING PORTIONS OF THE ALASKA ATS-F EXPERIMENT

Submitted To:

The Corporation for Public Broadcasting
Engineering Research & Development
Philip A. Rubin, Director

Submitted By:

State of Alaska
Office of Telecommunications
C.L. Buck, Director
Charles M. Northrip
Satellite Experiment Coordinator

June 20, 1973

GENERAL DESCRIPTION

The Alaska ATS-F project is already underway. Planning has been in progress for over a year (supported in the main by grants from the U.S. Department of Health, Education and Welfare, and by Alaska's own resources). The ATS-F satellite itself will be launched in April of 1974. Programming to be delivered via the satellite, however, must be prepared well in advance of the satellite circuits. One particular experiment scheduled for the State of Alaska for use on ATS-F will utilize the technical capabilities of the satellite to the fullest. That project is designated as "viewer defined programming" and will not only utilize the interactive capability of the satellite (the ability of receiving sites to provide audio and video feedback to the transmission point on the program being delivered), but will also utilize the four audio subchannels of the transmitted television signal to the earth stations for multiple audio tracks coordinated with a single video program.

It is these two particular aspects--the full use of interactive capability and the full use of multi-channel audio for multi-lingual transmission that prompts this proposal to the Engineering Research and Development division of the Corporation for Public Broadcasting. The project will utilize the interactive capability of the ATS-F to allow the consumer of broadcast program material to determine the content and the future direction of the program. The experience gained during the course of the ATS-F experiment will then give all who participated a much better understanding of the capabilities of this approach and the demand for similar programming in future systems, both inside and out of Alaska.

Similarly, experience with the four audio sub-channels, as carriers for multi-lingual translations of the main program, will provide valuable experience for the design of future international systems, or systems designed to deliver programming to bi- or multi-lingual populations.

Special types of equipment (particularly four-channel recorders and interface equipment to take full advantage of the feedback features) will be acquired and evaluated during this project.

PROGRAM DESCRIPTION

Although Alaska natives make up almost one fifth of the total population of Alaska, news of their lives, culture and enterprises is scarce, except as such news is of interest to the larger Alaskan public. Settlement of their claims to the land in 1971 has made even more urgent their use of media to inform and to coordinate, and has enhanced the opportunity of retaining the meaning of native cultures.

This experiment will be centered around a program entitled "Alaska Native Magazine." The program will be presented in several native languages, and the four audio channels will be employed for the languages. A native host, or rotating group of hosts, will explain and discuss topics such as native land claims, the pipeline from a native perspective, native arts and crafts, dances and other such activities. This experiment will be designed and managed by Alaska natives. A committee will serve as the content determining body

for the "Alaska Native Magazine." This group will select the themes and material for the early programs and will set priorities for handling program suggestions received during the feedback sessions. Much of the programming will be developed by a roving camera team on location at various sites during events of significance. Occasional live feeds will be managed from some places via satellite whenever appropriate.

Each week, 30 minutes of film, video tape, and in-studio production featuring natives and native concerns will be produced and be broadcast to all earth stations in the field. In localities where it is possible, the program will be rebroadcast by a local public TV outlet, including six mini-transmitters (10 watt output) to be installed as part of the ATS-F program. When broadcast, the program will have built-in pause points, where audio (and perhaps video) feedback from the viewing locations can be accommodated. These pause points will allow viewers to express opinions, ask questions, and suggest additional topics to be covered in the program. This project will use the satellite to allow the consumer to determine the content of future programs and could well lead to future systems of consumer controlled communications.

How this system might work is suggested by, for instance, the showing of a housing development on an "Alaska Native Magazine" program. During a pause point, a question is asked about the housing program in general, and a suggestion is made that it be compared with other projects. During the next week, the roving film/videotape crew interviews the head of the Alaska State Housing Authority and then shoots scenes reflecting his comments. In addition,

scenes are shot to support critical views of the subject. These segments are then integrated into a future ANM program to clarify the problem.

The "Alaska Native Magazine" will be identified in detail by content planners only for the first few programs. The content specifications for the bulk of the programs will result from the feedback process. Initially, content will cen on public and economic issues of importance to Alaska natives. Additionally, content will focus on native traditions and seasonal events taking place in various communities.

Once each week the "Alaska Native Magazine" program will originate at a studio located at a video transmit site. When the pause points in the program are reached, any of the field stations will be able to respond to the program via the voice return link. On occasion a video uplink will be utilized on a pre-planned basis to provide specific video input at a given time. At the originating studio the "Alaska Native Magazine" host will receive the feedback comments and respond to them. A means for managing replays during feedback periods will be devised and modified, if required, through experience gained in the experiment.

The project will further demonstrate the use of a satellite distributed video network, with audio interaction capability for providing specialized information to a distinct population. It will provide experience in the use of a satellite video network for intra-state pickup and delivery of information.

Because the program material will be custom-produced, a production staff will be employed for the bulk of the effort. The additional services of an outside crew may be required for specialized, on-site origination. Full staffing will not occur until 1974; until then preliminary planning and consultation

with native representatives will predominate. Frequent meetings of the Content Selection Committee are planned.

A budget for this project is provided on the following page. The budget lists the specific costs for the operation of the "Alaska Native Magazine"/Viewer Defined Programming experiment, for the first year of its operation. In addition, there is a $15,880 item to cover the share of general administrative costs that the Alaska ATS-F project will incur in supervising this particular experiment.

BUDGET

Overall Program Administration		$15,880
Personnel:		
Producer-Director	$850	
Secretary	150	
Writer	750	
Graphic Artist	750	
Production Assistant	600	
Cinematographer	750	
		3,850
Benefits		770
Studio		3,840
Videotape		540
Communication		400
Materials and Processing		6,000
Host Teacher		600
Translators (Native Language)		450
Consumer Committee		5,040
Travel		7,200
Equipment		19,929
Office Equipment		250
TOTAL		$64,749

CORPORATION FOR
PUBLIC BROADCASTING

888 SIXTEENTH STREET, N.W., WASHINGTON, D. C. 20006 ☎ TELEPHONE: (202) 293-6160

HENRY LOOMIS
President

RECD OCT 22 1973

October 18, 1973

AOT
B-1
175?

Dr. Charles M. Northrip
Special Assistant of the Governor
for Planning Satellite Projects
Office of the Governor
State Capital
Juneau, Alaska

Dear Dr. Northrip:

Thank you for your proposal of June 20, 1973. CPB has reviewed the proposal and finds that the experiments proposed are consistent with our policy of research and development into areas of new technology and how these areas affect the future of public broadcasting. The public broadcasting portions of the Alaska ATS-F experiment will provide an important information base on which both the State of Alaska and the Corporation may make future investment decisions in the areas of satellite distribution and interconnection, multi-lingual audio programming, video cassettes, low-power TV transmitters, and two-way interactive communications.

With respect to CPB's present experiment with the AEBC (Alaska Educational Broadcasting Commission), it is our hope that every effort will be made to site satellite receiving equipment at villages and communities involved in that program.

We have reviewed the budget on page 6 of your proposal and wish to emphasize that any capital equipment acquired in the process of this experiment, utilizing funds from the Corporation, is the property of CPB and must be accounted for in the final report.

It is also our understanding that travel funds included in this budget will cover an agreed upon amount of travel by CPB personnel involved in administration of the project. CPB will transmit the grant of $64,749 upon receipt of appropriate invoices from the State of Alaska.

We hope every effort will be made to utilize to the fullest extent the existing equipments and capabilities of the public broadcasting stations now operating in Fairbanks and Bethel, Alaska. These stations represent a cadre of trained experts in communications whose skills and knowledge of native concerns would be extremely useful in all aspects of this experiment, and the concurrent NIE programs.

CPB will require timely progress reports on the project, and would appreciate receiving copies of similar reports prepared for the NIE portion of the experiment. We have no objection at this time to NIE receiving copies of progress reports of the CPB sponsored efforts.

As the launch date of the ATS-F satellite approaches, I would emphasize to you the tremendous importance and significance which this series of experiments represents, and remind you that CPB is proud to be your partner in this history-making experiment. We hope to be able to continue our support for this experiment in the coming years, barring unforseen budget difficulties.

Enclosed is a statement of compliance with requirements for non-discriminatory practices which is required under programs receiving financial assistance from the Corporation. Please sign and return one copy to signify your intention to comply with the requirements.

Sincerely,

Henry Loomis

cc: Governor William A. Egan, Alaska
Senator Mike Gravel, Alaska
Senator Ted Stevens, Alaska
Dr. Albert L. Horley, HEW
Dr. Thomas Glennon, NIE

A PROPOSAL

FOR THE SUPPORT OF TECHNOLOGICAL EXPERIMENTS SCHEDULED BY THE STATE OF ALASKA IN CONJUNCTION WITH THE ATS-6 SATELLITE COMMUNICATIONS EXPERIMENTS IN ALASKA

Submitted to:

The Corporation for Public Broadcasting
Engineering Research & Development
Philip A. Rubin, Director

Submitted by:

State of Alaska
Office of Telecommunications
Charles M. Northrip
Satellite Experiment Coordinator

September 30, 1974

INTRODUCTION

The Alaska ATS-6 project is already underway. Planning has been in progress for over a year (supported in the main by grants from the U.S. Department of Health Education and Welfare, The Corporation for Public Broadcasting, and by Alaska's own resources). The ATS-6 satellite itself was launched in June of 1974. A summary of the complete Alaska ATS-6 plan is included in this document as Attachment A.

STATEMENT OF PROBLEM

While funds from the agencies mentioned in the introduction have allowed the project to get under way, portions of the Alaska ATS-6 experiment will suffer if no additional funding can be found.

A major portion of the Alaska project was to involve an instructional television series dealing with childhood education. This series was to be strongly rooted in the cultural heritage of Alaskan Natives utilizing authentic Native story tellers from each satellite location and film footage of the story teller in action. Other illustrations were to be derived from authentic Native artifacts which would illustrate the story being told. Pre-school children in the audience would be asked to help act out the stories and to assist in the development of motor skills, and would be asked to create their own illustrations to the stories submitted for viewing by the rest of the satellite locations.

Design work on the Early Childhood Education program was well along when the National Institute of Education, the major Alaska ATS-6 funding agency, determined that it would no longer support the activity; therefore, actual production of the series was never attempted, although two major puppet characters had already been constructed and a set had been designed.

The Consummer Committee, composed of rural village residents and subject matter experts, have guided the development of the Early Childhood Education

designs; many other Alaskans, who were exposed to the concept, were most enthusiastic about the idea. It seemed to spark more interest than any other program effort projected for the ATS-6 experiment. The side benefits of having many Native legends on video tape for use in other programs, particularly in public broadcasting area, is also a major point in favor of finding some way to produce the series.

"The Alaska Native Magazine" is the program vehicle for the Alaska experiment known as Viewer Defined Programming. The Corporation For Public Broadcasting, in a fiscal 1974 grant, assisted in the development of this program. A major strength of "Alaska Native Magazine" was the timeliness of much of the material offered within the program, as it responded to the wishes and desires of the Native viewers themselves. A great deal of each program, however, consisted of film and tape documentary segments that illustrated major points made in the series. These "timeless" segments could easily be reproduced into a 30 minute weekly public television series to be offered by all of Alaska's public television stations. Such a reuse of the Alaska Native Magazine material would spread the major funding investment for the program over a number of years and a number of uses of the tape, and prove to be excellent stewardship of the monies received for this portion of the project.

One of the great strengths of the Alaska ATS-6 project was its heavy reliance on the capability of the interaction with the viewing audience through the

use of satellite technology. As the project moves forward, it is evident that more experimentation will have to be undertaken in the interactive segments of the programs in order to investigate what promotes the largest degree of viewer response to given programs. Photographs of individuals in geographic locations, at receiving sites, should be taken in order to be used during the interactive period. More visualization to be broadcast while the interaction takes place is necessary to keep the television programs from becoming static and uninteresting while two-way voice conversation is being conducted.

THE NEED

The needs to be met for responding to the above problems are easily stated.

The production of the first program, in the Early Childhood Education series, would provide the Office of Telecommunications with a sample of the kind of programming and the technological techniques used to promote interaction. With such a sample as our pilot program, various funding agencies could be approached with requests for funding to complete production of the series. Even if the series is never completed, program one could be distributed to Alaska public television stations, as a stand-alone special program, dealing with cross-cultural communication.

The hour long Alaska Native Magazine series broadcast over ATS-6 during the satellite experiment can easily be reduced to 30 minutes non-timely programs

which can be distributed on video tape to Alaska's public television stations. These programs will make a fine addition to the public television schedules of all stations in Alaska; and, as mentioned above, it will provide for excellent stewardship for the use of satellite experimentation funds. Not only will film footage, used in the one hour programs, be utilized, but out-takes and other unused footage still archived at KUAC-TV, the production agency for the program, will be utilized to complete the series.

Funds to allow for the hiring of a photographer, additional studio crew, travel to take the necessary photographs to enhance interaction origination from the Juneau studios, will do much to increase the flexibility in demonstrating all aspects of the interactive portions of the ATS-6 project. The whole technological advantage of satellite communications can be enhanced by the accomplishment of the above objectives.

BUDGET

Salaries & Professional Services			
Producer - Director	$ 3,132		
Cinematographer	3,132		
Scriptwriter	1,738		
Production Assistant	973		
Puppeteers	290		
Crew	3,891		
		$ 13,156	
Benefits		1,811	
Total Salaries			$ 14,967
Travel			
ECE Pilot		$ 1,501	
Photographer		3,000	
			4,501
Supplies			
Videotape			
Quad	$ 6,525		
Cassette	1,310		
		$ 7,835	
Audiotape		30	
Filmstock		1,397	
Graphics		750	
Photo		500	
Lumber & Set Material		200	
			10,712
Services			
Film & Photo Processing		$ 1,200	
Communication/Duplication		500	
Rights & Clearances		500	
Set Design		500	
Engineering Services		2,112	
			4,812
Sub-Total			$ 34,992
General Administrative Costs			12,500
Overhead to Sub-Contractor			2,008
TOTAL			$ 49,500

CORPORATION FOR
PUBLIC BROADCASTING

888 SIXTEENTH STREET, N.W., WASHINGTON, D. C. 20006 ■ TELEPHONE: (202) 293-616

HENRY LOOMIS
President

January 28, 1975

Dr. Charles M. Northrip
Special Asst. of the Governor
for Planning Satellite Projects
Office of the Governor
State Capital
Juneau, Alaska 99811

Dear Dr. Northrip: Charlie

I am pleased to inform you that Corporation for Public Broadcasting accepts your proposal to continue the public broadcasting involvement in the ATS-6 satellite program, and the associated interactive technical services and experiments which are included in this second phase of our support.

We are pleased with the great success which the ATS-6 program is having in Alaska, and are proud to be associated with this historic event.

We would be interested in seeing copies of some of the programs on 3/4" cassette if that is possible. In addition, it is our understanding that all programs will be made available to the AEBC, for distribution to all Alaskan public stations, as well as the Mini-TV stations now on the air.

In accordance with your proposal, our grant is for the sum of $49,500, and will be forwarded to your office when we are billed by the state.

Sincerely,

Henry Loomis

CONTRACT

This contract, effective as of the 13th day of June, 1975, between the State of Alaska, Office of the Governor, Office of Telecommunications, (hereinafter called the "State"), and KUAC, University of Alaska (hereinafter called the "Contractor"),

WITNESSETH that:

Whereas, the State is entering into this contract by direct negotiation and not by competitive bids because this is a contract for professional service.

Whereas, the Contractor is willing to undertake the performance of this contract under the terms of this contract;

Whereas, the Office of Telecommunications has the authority to enter into this contract by AS 44.19.010;

NOW THEREFORE, the parties hereto agree as follows:

Article I. The Service to be Performed.

The services to be performed by the Contractor are set forth in Appendix A attached hereto and made a part hereof.

Article II. The Period for Performance.

The period of performance under this contract shall commence on June 13, 1975, and expire on August 29, 1975. Performance may be extended for additional periods by the mutual written agreement of the parties.

Article III. Consideration.

In full consideration of the Contractor's performance hereunder, the State shall pay the Contractor $29,991 plus any balance remaining af

June 30, 1975, from Contract Number 1068 between the Office of Telecommunications and KUAC (approximately $40,000, as per Paul Hartman's letter of April 17, 1975).

Article IV. Additional Contract Provisions.

Appendix B attached hereto and made a part hereof sets forth additional general contract provisions of this contract.

Article V. Changes.

Appendix C attached hereto and made a part hereof, sets forth any changes or additions that were made in this contract prior to its execution. (If appendix C is not attached hereto, there have been no such changes or additions)

IN WITNESS WHEREOF, the parties have executed this contract.

Contractor:

By: Donna La Dafoe

Executive Vice President
(Official Title)

Date: July 8, 1975

State of Alaska:

Office of Telecommunications
(Department or Agency)

By: C. M. Nordyke

Satellite Experiment Coordinator
(Title)

Date: July 30, 1975

APPROVED

(Department of Administration)

Contract No. 3289

Code: 01-96-1-042
01-96-1-040

KUAC-TV at the University of Alaska will provide the following:

1. A completed 13 program series titled "Alaska Native Magazine."

   a) Each of the 13 programs will be a nominal 29 minutes in length.

   b) Each will be produced by re-editing the materials produced during the just finished ATS-6 project.

   c) Each will be introduced and the segments bridged with new location footage, and dated references deleted.

   d) Segments will be selected by KUAC from the material produced during the ATS-6 project.

2. Produce publicity packets on the series.

3. Produce promotional copy and production photos on each of the 13 programs.

4. A completed video tape recording of a Native Legend to be used as a part of a pilot program for ECE series.

   a) Select, obtain clearances and record on videotape a Native legend that illustrates a good example of the culture from which it was chosen.

   b) The selection and clearances should be obtained in cooperation with the appropriate Native groups and the Office of Telecommunications staff.

   c) The pilot program will be no less than 15 minutes nor more than 20 minutes in length.

   d) A quadruplex copy and a cassette copy of each of the 13 programs and pilot segment will be supplied to the "State."

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1665

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications; C.M. Northrip
(Department) (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):

Serve as utilization aide in the community of Nikolai. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Ann Alexi
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B Lind
Department of Administration

Date: 8-20

124

02-189

CONTRACT # 3140

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1664

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/m0.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):

Serve as utilization aide in the community of Aniak. Duties to include operating satellite terminal equipment during transmission; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Grace Bender
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Donald B Lui
Department of Administration

Date: 8-20

CONTRACT #3141

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1667

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Valdez. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Pamela Brooks
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. Lind
Department of Administration

Date: 8-20

CONTRACT # 3142

02-1109

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1648

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):

Serve as utilization aide in the community of Tanana. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Helena CARLO
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. Lee
Department of Administration

Date: 8-20

A.10/PAGE 111

207

contract #3143

02-109

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1669

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunciations (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the Department of Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(xx) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Sleetmute. Duties to include operating satellite terminal equipment during transmissio distributing publicity regarding the project: collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Mary Egnati
2.
3.
4.

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B Lind
Department of Administration

Date: 8-20

1.8

CONTRACT # 3144

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C. M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(xx) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):

Serve as utilization aide in the community of McGrath. Duties to include operating satellite terminal equipment during transmiss distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Betsy Ivy
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. Lee
Department of Administration

Date: 8-20

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1-3

02-110

contract # 3145

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1670

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications / C.M. Northrip
(Department) (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Angoon. Duties to include operating satellite terminal equipment during transmissions; collecting data about audience size and participation; distributing publicity regarding the project.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Vivian James
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. Lu
Department of Administration

Date: 8-20

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A.10/PAGE 114

02-109

contract # 3146

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1671

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/month) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Craig. Duties to include operating satellite terminal equipment during transmissions distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Justna Johns
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald Bard
Department of Administration

Date: 8-20

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contract # 3147

02-109

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS 1672

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunicaitons to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Chuathbaluk. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Ann Phillips
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. Lind
Department of Administration

Date: 8-20

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02-109

CONTRACT # 3148

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1673

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):

Serve as utilization aide in the community of Petersburg. Duties to include operating satellite terminal equipment during transmiss distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Beverly Reid
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Ronald B. L.
Department of Administration

Date: 8-20

1673 Contract # 3149

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1674

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: August 12, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications. to negotiate a contract for the total amount of $2,000 ($200/mo.) for the period August 15, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(x) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Yakutat. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Ted Valle
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

Gerald B Lund
Department of Administration

Date: 8-20

02-110

CONTRACT # 3150

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1719

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications (Department) C.M. Northrip (Name of Writer)

DATE: September 6, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $200/mo.(not to exceed $200 for the period September 6, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

(XXX) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Minto. Duties to include operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Kenneth Charlie
2.
3.
4.

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

M.K. Eckenweiler
Department of Administration

Date: 9/10/74

RECEIVED
SEP 1974

A.10/PAGE 119

07-1170

135 Contract # 3156

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1738

TO: Department of Administration

FROM: Office of the Governor
Office of Telecommunications; C. M. Northrip
(Department) (Name of Writer)

DATE: September 6, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department~~ Office of Telecommunications to negotiate a contract for the total amount of $200/mo. (not to exceed $200 for the period September 9, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

XXXXXX 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Nenana. Duties to include operating satellite terminal equipment during transmission distributing publicity regarding the project; collecting data about audience size and participation

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Catherine Demientieff
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

M. R. Lehaven
Department of Administration

Date: 9/16/74

REC'D OCT 10 1974

136

contract #3162

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1808

TO: Department of Administration

FROM: Office of the Governor
Office of Telecommunications (Department) C. M. Northrip (Name of Writer)

DATE: September 20, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the Department of Office of Telecommunications to negotiate a contract for the total amount of $ 200/mo. (not to exceed $20 for the period September 23, 1974 to June 15, 1975. The contract may be described as follows: (check appropriate blank)

XXXXX 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s):
Serve as utilization aide in the community of Allakaket. Duties to incluse operating satellite terminal equipment during transmissions; distributing publicity regarding the project; collecting data about audience size and participation. (Supersedes #3157 w.Moses Henzie)

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Stella Hamilton
2.
3.
4.

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

M. R. Coleman
Department of Administration

Date: 10/17/74

RECEIVED
OCT 16 1974

2.12

A.10/PAGE 121

02-1109

CONTRACT # 3181

RECEIVED
DEC 10 1974

AUTHORITY TO ENTER CONTRACT NEGOTIATIONS

1910

TO: Department of Administration
Office of the Governor

FROM: Office of Telecommunications ; C.M. Northrip
(Department) (Name of Writer)

DATE: December 1, 1974

(This form must be executed prior to entering negotiations regarding personal services contracts, or negotiated contracts for other services, materials or goods, or construction, when the contract amount is for $1,000 or more in an annual period.)

It is the intent of the ~~Department of~~ Office of Telecommunications to negotiate a contract for the total amount of $1,300 ($200/mo.) for the period 12/1/74 to 6/15/75. The contract may be described as follows: (check appropriate blank)

(XXX) 1. Personal services contracts
2. Negotiated contracts as follows:
( ) (a) goods or materials contracts
( ) (b) construction contracts
( ) (c) services contracts which may not be considered "personal services"

The contract is for the accomplishment of the following purpose(s): Serve as utilization aide in the community of Galena. Duties to include operating satellite terminal equipment during transmission distributing publicity regarding the project; collecting data about audience size and participation.

We intend to negotiate with the following persons or firms, listed in order of our preference:

1. Charles Zimbicki
2. _____
3. _____
4. _____

The concurrence of the Department of Administration is sought so that we may proceed to conclude the above contract.

CONCUR:

_____
Department of Administration

Date: 12/16/74

CONTRACT #3207

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND 20771

REPLY TO
ATTN OF: Code 951

FILE 1-1831
MAY 19 1975

Ms. Jennifer L. Wilke
Office of the Governor
Office of Telecommunications
Pouch AC
Juneau, Alaska 99811

Dear Ms. Wilke:

I have reviewed my notes and records on the Health/Education Telecommunications (HET) Experiment on ATS-6. The Alaskan site selection was determined by experiment (Alaskan) personnel. The number of sites was determined by the HET Policy Committee on recommendations by the Technical Subcommittee. This decision was made in February 1973. At that time Alaska did not have an accepted proposal. Funding was limited for both the program and the hardware. In trying to place bounds on the size of the experiment, all participants were asked what was the fewest number of terminals required that would still allow them to meet their objectives. Mr. Walp indicated in his memo of February 10, 1973, that twelve was the minimum, but thirteen to seventeen would be more significant. The initial Alaskan proposal indicated forty sites. Funding indicated a reduction in the Alaskan effort by one half and hardware costs and available funds indicated a similar reduction on the number of terminals that would be available. The site selection was further compounded by frequency authorization constraints.

In December 1972 HEW initiated a request for frequency authorization for the HET experiment. Severe problems with the 2250 MHz frequency was encountered. This frequency was to be used by video and voice or data transmitters. It became apparent in January that a limited number of 2250 MHz transmitters might be allowed. In Bob Walp's memo, he indicates that voice transmit capability was required at all sites and video transmit capability required at Fairbanks and preferred at Anchorage and Juneau. The HET Technical Subcommittee worked closely with the military in coordinating all transmitting site locations, these sites included both the education and the health components. This coordination procedure coupled with the restrictions of the satellite coverage area dictated the video origination sites. This was also coordinated with Dr. Northrip for education and Mr. Feiner for health. In my discussions with Mr. Walp on satellite coverage,

site list by priority, minimum number of sites and the technical and fiscal constraints we were encountering, I indicated that seventeen was a more palatable number than forty. This was as a member of the HET Technical Subcommittee rather than expressing a NASA position. However, it is understandable that being a NASA employee, it could be interpreted otherwise.

I was in Juneau at the end of February and returned to Washington in early March and handcarried the Alaskan proposal to HEW. This proposal was a better fit to the effort HEW was expecting to fund and indicated a network of seventeen terminals.

The frequency problem was not quickly solved. In March I wrote a memo outlining options to accomodate the "talk-back" requirement of HEW and later a memo on technical implementation of the best option. I am enclosing the second memo because Table 7 indicates four Alaskan sites for video transmission and twelve Alaskan sites that would use VHF transmitters for voice traffic. The site that is missing from a list of February 13, 1973 is Juneau. This list and my note is also enclosed.

Basically, the decision was not an instant one and not based on simple facts, but on many inter-related problems. Like the dynamic experiment that HET became, the decisions were equally dynamic and evolved through much negotiation and cooperation of all parties involved.

If you have additional questions or if I can be of any assistance, please call or write.

Sincerely,

Albert A. Whalen

Albert A. Whalen, Acting Head
Telecommunications Systems Branch
Communications & Navigation Division

Enclosures

ROBERT M. WALP
1234 El Mirador Drive
Pasadena, California 91103

February 10, 1973

Dr. Albert L. Horley
Room 5h6CON
Department of Health, Education
and Welfare
Washington, D. C. 20201

Dear Al:

Enclosed is the revised list of sites for the Alaska/ ATS-F Program.

The list is ordered in order of approximate priority. Voice transmit capability is assumed in all cases with video transmission essential at Fairbanks and highly desirable at Anchorage and Juneau.

We feel that there would be little justification in participating if less than twelve sites were available. The fixed costs would be too high in relation to the sample size under such circumstances.

The opportunities for innovation as well as better statistical control improve rapidly with the addition of more sites. Population distributions are such that we feel sites 13 through 17 would greatly improve the significance of the experiment. Sites 18 through 22 would add more. The remaining sites have been listed in order to have their clearances checked in case some of the others fall out during the coordination process.

Relative priorities might change somewhat if several of the higher-priority sites cannot be cleared. If there are no clearance problems I would strongly advocate that the first 17 sites be listed as essential.

I hope this is of some help.

Best regards,

Bob

SITE SURVEY OF ALLAKAKET

August 16, 1973

Allakaket is located on the Koyukuk River about 175 miles northwest of Fairbanks. The village is on the south bank of the river and has an unobstructed view to the south.

The three-room school is located about 200 yards behind the village. The school building is of frame construction with a gable roof. The area immediately surrounding the school is cleared of trees, and anywhere south or east of the school in the cleared area gives a clear view of the satellites. However, these are also playground areas, so fencing would be required around ground-mounted antennas.

The ground in this area appears to be a mixture of sand, silt, and light gravel. Local people indicate the permafrost level in the cleared school ground area exposed to the sun is four to five feet down.

The village has an ATS-1 installation already. This is located in a house about 200 yards behind the school and is presently connected to the school by a cable pair.

BASE INSTALLATION

Installation of the ATS-6 receive-only antenna base was accomplished on October 10, 1973. At the time of the installation, the surface of the ground was frozen to a depth of three inches. After the surface was broken with a pick, a power auger was used to bore anchor holes down to the permafrost level which turned out to be three feet down. Eight-inch expandable anchors with 5/8 inch threaded rods were set on the permafrost layer. After backfilling the anchor holes, the 6" X 8" timbers were drilled for the anchor rods and counter bored to set the nuts below the surface of the timbers so the rods could be cut off flush with the mounting surface.

July 17, 1974

The ATS-6 antennas was mounted on the bases installed last October. Permafrost cave-in and heaving was evident around the base, so the area was leveled and filled where necessary.

After erection of antenna and installation of peripheral equipment,

alignment was successfully completed with a signal strength on HP receiver of 14, 4 X 4 video and 3 X 3 audio.

October 3, 1974

A special pointing was conducted on this date to determine ATS-6 footprint characteristics. This was a joint test to correct satellite pointing in the Alaska Education configuration. After the test, terminal was aligned to new configuration. Signal on HP meter was 18, picture 5 X 5, audio 3 X 3.

SITE SURVEY OF ANCHORAGE

August 17, 1973

Anchorage is a medical receive-only terminal site with the terminal to be located at the Alaska Native Medical Center.

The hospital is a multi-story steel and concrete building near downtown Anchorage. The video monitor is to be located in the room presently used as the ATS-1 control point. This room is located on the seventh floor of the main building. Because of the distance between this room and the only feasible ground location, the indoor unit would have to be separated from the control point. Mounting the antenna on the penthouse of the building would bring the antenna to well within one-hundred feet of the control room. The hospital administrative officer indicated that a roof-mount would be acceptable provided no holes were drilled into the roof. If practical, mounting the antenna on a weighted pad and guying it to the parapet would be satisfactory to the hospital. Any installation plans, however, will have to be submitted to the hospital director before work is started.

May 6, 1974

Met with representatives from ANS Hospital Staff to determine preferred method of mounting of ATS-6 antenna. Staff members were quite emphatic in their opposition to any type of mount that would require holes to be drilled through the roof.

Discussed and showed picture of the Juneau installation with timbers mounted across the parapet and explained how a similar type mount would be feasible for the Anchorage installation.

Hospital staff approved of this approach, studied preliminary plans and gave us the authority to proceed with the installation.

June 4, 1974

Installation of the ATS-6 antenna and mount was made at this time. Platform construction was effected on the ground using 12" X 12" main timbers and 2" X 12" for decking. Antenna was assembled on platform and whole assembly was placed in position across the sixth floor parapet using a crane. Mount was secured to the parapet by means of fabricated brackets and bolts. Antenna was then boresighted on predicted satellite position.

SITE SURVEY OF ANGOON

July 18, 1973

Angoon is located on a peninsula between Chatham Strait and Kootznahoo Inlet. The high ground on the peninsula is probably not over two-hundred feet, and most of the unoccupied land is wooded with spruce.

There are two schools in Angoon. The original school, an old frame building, is used for grades K through 4. The new school, for grades 5 through 8, is a single story building with a shallow-pitch peaked roof.

The new school would be the best location for the TV receiver since it has several rooms capable of holding a large number of viewers. Antenna mounting on the roof of the new school would be a simple matter as the pitch is very shallow. The roof is constructed of heavy decking on wooden beams. A more accurate survey, however, is required to determine the feasibility of this antenna location. The look-angle from the school is right into the trees on the slope behind the school and may even intercept the top of the hill. This area is scheduled to be cleared for new housing. While the housing project could eliminate the tree problem, it might also introduce new problems in the form of buildings. Again, only a more accurate survey and investigation can answer these questions.

A second possible antenna location is next to the new City Hall building which is under construction. From this location the look-angle is intercepted by the tops of a few trees which will probably be removed for the new housing. Because of the roughness of the ground at this point, it appears that a raised wooden platform might be easier and more economical for antenna mounting than fround clearing and leveling. The new City Hall is about five-hundred feet from the new school.

Other sites looked at were the city power plant the the RCA microwave site. The power plant is in the most clear area, however, it is several hundred feet further from the school than the City Hall. The RCA site is also more distant from the school than is the City Hall.

April 26, 1974

A second survey was conducted in Angoon because of the questions raised in the original survey. This survey determined that the most suitable site for antenna location would be at the old school. It provided a clear line of site towards satellite, and school is the target audience.

April 30, 1974

The ATS-6 antenna was assembled on a raised platform on the east side of old school.

July 24, 1974

ATS-6 terminal aligned and checked out satisfactory. Signal strength on HP receiver was 18 with 5 X 5 picture and 3 X 3 audio.

September 12, 1974

VHF terminal received and installed.

November 8, 1974

VHF was changed for channel 3 operation, system checks out satisfactory.

SITE SURVEY OF ANIAK

July 25, 1973

Aniak is located on the Kuskokwim River about ninety miles northeast of Bethel. With the exception of some low hills to the north of the village, it is surrounded by many miles of flat land. The village has telephone service and a 5000 foot runway. Wien Airlines has three scheduled flights per week into the village.

Aniak has one school (State-Operated). The building has a flat roof. The satellite angle from the roof of the school is unobstructed. From the ground, the look-angle is intercepted by a few willow-type trees. The teacher's residence is attached to the school. The ground is a mixture of river silt, sand and light gravel. Digging or augering should be no problem if accomplished before the ground becomes frozen.

The village also has a community center located about three-hundred yards east of the school.

Aniak appears to offer no unusual hindrances to antenna or equipment installation.

October 23, 1973

Installation of the ATS-6 receive-only antenna base was not accomplished at this time. It was determined necessary to mount the antenna on the roof of the school or to build a platform, as the satellite view was obstructed from the ground. The Aniak school has a flat roof with 2" X 6" stringers on 16 inch centers. Application has been made to State-Operated Schools in Anchorage for permission to install a roof mount in Aniak.

June 20 & 21, 1974

Installation of ATS-6 and VHF antenna accomplished during this time.

Laminated 2" X 12" 's were used as the ATS-6 mounting base and due to the low elevation at Aniak it was necessary to install the antenna on the school roof to obtain a view of the satellite.

The ATS-6 antenna was secured to the roof utilizing 5/8 inch rods and 2" X 12" timbers across the underside of the rafters. Holes were then drilled through the roof and timbers cinched together by tightening rods, thus securely anchoring base to the roof.

The VHF antenna was mounted on the ground in front of the school and cement was used to hold the mast upright. Guy wires were added as additional security.

The HP receiver and TV monitor were installed in the first grade room as requested by the school administration.

August 7 & 8, 1974

Digital coordinator was installed and aligned. The system checked out satisfactory.

Attempted alignment of ATS-6 system. Signal strength on HP receiver was extremely low with an unviewable picture.

Checked out system utilizing s-band test set and checks indicated normal operation. Suspect there is a weak signal strength due to satellite pointing.

September 9, 1974

Attempted to realign antenna system on standard Alaska Education pointing. It was still not possible to get a decent signal into Aniak as at this time NASA was experiencing problems with the ATS-6 satellite.

September 21, 1974

Special pointing of ATS-6 satellite to determine if pointing was indeed the problem at Aniak. Placed beam center on Aniak and had signal strength of 19, 5 X 5 picture and 3 X 3 audio. However, when we went back to standard Alaska Education configuration reception was marginal.

(Aniak, cont.)

October 3, 1974

Conducted special alignment to determine best possible configuration for standard Alaska Education pointing. Through these tests a standard pointing to include all Alaska Education sites in the experiment was determined. Signal strength at Aniak was 13 with a 4 X 4 picture and 3 X 3 audio.

November 15, 1974

VHF changed to channel 3, system checked out, operation normal.

SITE SURVEY OF CHUATHBALUK

May 25, 1973

Russian Mission or Chuathbaluk is located on the Kuskokwim River about nine miles from Aniak. The name Chuathbaluk has been selected as a new name for the village, to avoid confusion with the village of Russian Mission on the Yukon River. However, in the Bethel area, the village on the Kuskokwim is usually referred to as "Little Russian Mission" or "Little Russian." The village is situated on the north bank of the river and has an unobstructed view to the south across the Kuskokwim Plain.

The State-Operated village school is located on a knoll overlooking the village to the east and the river to the south. The antenna could be located anywhere along the south side of the school which is on the brow of a steep slope to the river. A good location would be at the top of the slope between the teacher's residence and the school building. The ground in this area has recently been dug up for sewers and was being leveled at the time of this survey. The ground is a mixture of silt and sand which appears to pack hard but should provide easy digging or augering.

The village does not have a runway but is accessible by float plane. Freight can also be brought to the village by boat from Aniak. This would require making arrangements with someone in the village to pick the freight up. There is a small sawmill near the village which can cut timbers to order if required.

Weather (or river freezing) could create problems in getting equipment to the village. Otherwise, no other unusual difficulties are foreseen.

August 26, 1974

Construction of ATS-6 mounts and antenna was carried out at this time.

We were not able to use original site chosen in first survey and found it necessary to locate antenna approximately 1000 feet from school to obtain view of satellite.

A weighted box type mount was determined as the most feasible with HP receiver at the antenna site located in a weather-tight box. HP video and audio outputs were brought to school via cable runs and A/C power for equipment was provided by cable from school generating plant.

September 21, 1974

Antenna alignment was accomplished at this time and system check out made. System checked out satisfactory with a signal strength of 15 on HP receiver.

October 4, 1974

Re-checked alignment of system found everything operating satisfactory.

December 6, 1974

Teacher made crystal changes in VHF terminal as outlined in procedures by this office. Terminal checks out satisfactory.

SITE SURVEY

CRAIG 11/7/73

Craig is located on Prince of Wales Island at the south end of Klawock Inlet, approximately sixty miles northwest of Ketchikan. The 1970 census of population was 272.

There are two schools in Craig and both have a mixture of elementary and high school students. The main school is located below the second school. The main school is the better location for the satellite antenna. The roof of the school and the attached gym are pitched at approximately a 15 degree angle, however, a mount could be built to accommodate the antenna adequately. The antenna could also be mounted in the school's front yard but the school principal desires a roof mount if possible.

Lumber can be obtained locally through Isaac's Building Supply, phone number 826-3624, and Ketchikan Transportation Company has weekly boat shipments to Craig from Ketchikan.

SITE SURVEY OF CRAIG

April 2, 1974

Having submitted plans for the ATS-F antenna mount on the gym roof and obtaining approval from Craig City Schools construction was begun at this time.

A platform constructed out of 2 x 8 timbers and topped with plywood was custom built to fit the gym roof. The platform was held in place by 5/8 inch rods which were drilled through the roof and anchored across roof stringers on the under side.

April 3, 1974

The ATS-F antenna was erected at this time and anchored securely to the platform. The antenna was guyed to the roof to provide additional strength and reinforcement. The antenna was then boresighted on the predicted satellite position. During antenna mount construction and antenna erection Harold Hogbey, from the State Division of Buildings, was along for assistance.

September 3, 1974

Assembly of UHF system accomplished at this time. UHF checks out satisfacorty; attempted alignment of ATS-6 system. Unable to get satisfactory reception. Equipment checks out normal with s-band test set. Pulled s-band receiver, cable, pre-amp, and feed horn to bring to Juneau for further check out.

October 7, 1974

Checked all equipment returned from Craig and equipment checked out satisfactory. Equipment was reinstalled in Craig and again a u-alignment was attempted. A very weak signal was observed and by tuning through the signal a satisfactory signal could not be obtained.

October 15, 1974

With terminal equipment checking out satisfactory and still not able to obtain a operational signal into Craig conducted further tests to: (1) eliminate the possibility of s-band fed back and cancellation, and; (2) substitution of critical components.

Completion of checks still did not provide a satisfactory signal into Craig. Suspect improper satellite pointing.

November 25, 1974 .

Special alignment test conducted with NASA to place Craig in center of footprint. No significant change in results. Suspect defective ATS-6 receive antenna; substitute antenna ordered.

March 10, 1975

Joint effort by Ted McIntire and George Shaginaw to get Craig operational; by s-band testing and component substitution assured ourselves of a working system. The only possible reason for unsatisfactory reception had to be ATS-6 receive alignment. However, this site had been boresighted and checked the same as other sites and at other site no difficulties had been encountered. Only possible explanation was magnetic error not listed or known affecting compass readings. However, antenna would tune through a weak signal and at other sites we hadn't seen a secondary signal.

To make a long story short signal was found about 13 degrees from boresighted predictions. It was very sharp and when aligned on this signal provided a satisfactory picture.

SITE SURVEY OF FT. YUKON

August 14, 1973

Ft. Yukon is located on the Yukon River about 150 miles north of Fairbanks. The terrain surrounding the community is open and flat. The community has a good airport and is served daily by Wien Airlines and Ft. Yukon Air Service.

Since Ft. Yukon will be involved in the IHS medical portions of the experiment only, there is no requirement for equipment to be installed at the school. The medical clinic, which will be the ground terminal for the experiments, is a three-story log building with a gable roof. The medical facilities are located on the ground floor. The land around the building has been cleared for a considerable distance in all directions. The most obvious locations for antenna installation are in front of the building and across the road from the south side of the building. The latter might be preferable since the residents of the area say the side location is usually clear of snow, while the area in front of the building is sometimes subject to drifting. The soil appears to be typical of most riverside communities, consisting of sand, silt, and light gravel. The permafrost level is reported to be four or five feet deep. The clinic is already equipped with an ATS-1 installation with the antenna located at the north end of the building. The Ft. Yukon Power Company has a post hole digger and back hoe which could be made available to installing crews, according to the manager of the Power Company.

There do not appear to be any unusual problems with this installation. However, if the antennas are located at the south end of the building, the cables will either have to be burried or held above the road by a pole.

October 1, 1973

Bases for both transmitter and receive antenna were installed at this time at southeast corner of building. Timbers were held in place with eight inch expansion anchors burried to approximately three feet.

(Ft. Yukon, cont.)

July 16 & 17, 1974

ATS-6 receive and transmit antennas assembled on bases installed last October. Bases were in satisfactory condition, however, some filling and leveling was required. HP receiver and transmitter indoor unit installed in space provided by Westinghouse and connections were made to Westinghouse peripheral equipment.

Aligned antennas and checked transmitter during test period with ATS-6 satellite and Juneau and Fairbanks monitoring. Reception was satisfactory with signal strength of 14 and picture 4 X 4 and audio 3 X 3. Had difficulty in transmitting as Hughes transmitter wasn't making rated transmitter power and appeared to be off frequency.

Westinghouse assumed maintenance and control of the ATS-6 site at Ft. Yukon.

SITE SURVEY OF GALENA

August 15, 1973

Galena is located about 250 miles west of Fairbanks on the Yukon River. Since Galena is a principal site in the medical portions of the ATS-6 experiment, the terminals will be installed at the health clinic.

The health clinic building in Galena is a small log house which is located on the main village street and faces south across the Yukon River. Because the clinic is so close to the street, it appears that the only way to place the antennas adjacent to the building would be to construct a raised platform for mounting the antennas. An alternate antenna location is across the street on top of the river bank. This location requires installation of protective fencing. There is a possible hazzard here from river bank erosion and flooding during times of high water. The school, a complex of several small buildings, is located approximately two-hundred yards east of the clinic. There are enough utility poles in the area between the clinic and the school so that cables could be run between the two facilities without the necessity of installing additional poles.

Consideration of installation procedures in Galena is complicated by the fact that construction of a new clinic building is being contemplacted for completion by September of 1974. The new clinic would be situated about two miles from its present location. This situation may indicate that separate receive-only terminal at the school is more desireable than an inter-connection between the school and the clinic.

August 30, 1974

Installation of the ATS-6 transmit and receive station was completed at this time. Antenna mount construction consisted of 2" X 10" 's and plywood box mounts filled with gravel.

Only feasible antenna location for clinic was on river bank. This site will give us problems during break-up, however, that is close to experiment termination and unless river floods, it should prove satisfactory.

Preliminary alignment of ATS-6 receive and transmit terminal checked satisfactory.

(Galena, cont.)

School installation has not been accomplished as equipment for site has not yet arrived.

December 4, 1974

IHS clinic installation extended to school by equalized video cable and audio cable runs. VHF remote control unit also connected. System checked out satisfactory.

SITE SURVEY - JUNEAU

June 1, 1974

Commenced planning with State Division of Buildings to determine best methods of mounting ATS-6 antennas on roof of Health and Social Services Building. By evaluation building design and predicted stress expected by ATS-6 antennas, determined that a direct roof mount would not be possible. Further studies indicated a method of mounting and fastening two 24 foot 12 x 12 inch timbers across the parapet would provide sufficent strength to meet predicted stress calculations. An agreement was reached between Division of Buildings and the Office of Telecommunications where as Division of Buildings would install the timbers to their specifications for mounting of the ATS-6 antennas.

June 18, 1974

Division of Buildings completed construction of antenna mount and ATS-6 receive and transmit antenna's were erected at this time. Antenna's were boresighted on predicted satellite locations. UHF TERMINAL DISMISSED AND TESTED ALL TESTS SATISFACTORY.

July 15, 1974

With Denver providing c-band uplink, alignment of the Juneau s-band receive terminal was accomplished at this time. Although some c-band uplink problems existed, it was determined that the s-band receive terminal was operating satisfactory.

August 12, 1974

Installation of the s-band transmitter and feed accomplished on this date.

August 21, 1974

Tested s-band transmitter. Some minor adjustments (frequency) were required. Check indicate normal operation.

November 27, 1974

UHF antenna and receiver installed at RCA facility, Lena Point. Signal provided to main Juneau ATS-6 facility via remote audio line. Installation provided a clearer reception of all UHF traffic.

SITE SURVEY

McGRATH 7/26/73

McGrath is located near the head of the Kuskokwim River about 200 miles northwest of Anchorage. The community is located on the river plain with the closest mountains lying chiefly to the north and west.

The McGrath school is a flat-roofed building of fairly modern wood construction. The roof is constructed of tongue and groove decking laid on large beams so that a roof-mounted antenna appears feasible. A ground level antenna location would also have a good satellite view. However, since McGrath is a comparatively large community, occasionally hosting high school basketball games, etc., a ground-mounted antenna should probably be protected by fencing or some form of enclosure.

The McGrath Airport has a hard-surfaced runway large enough to handle jet aircraft and, in fact, has 3-times per week jet service by Wien Airlines from Anchorage. There are no building materials suppliers in McGrath so that any materials required for station installation would have to be brought in from Anchorage.

* * *

Installation of the ATS-F receive only antenna base was not accomplished at this time (10/36/73). It was determined necessary to mount the antenna on the roof of the school or to build a platform, as the satellite view was obstructed from the ground. The McGrath school has laminated 2" x 8" stringers on 8-foot centers under a tongue and groove decking. Application has been made to State-Operated Schools in Anchorage for permission to install a roof mount in McGrath.

June 21, 1974

Having presented S.O.S.S. plans for ATS-F antenna mount on roof of McGrath school and obtained permission to proceed, construction was begun at this time.

Antenna mount was secured to the roof by means of 5/8 inch rod being drilled through roof and stress placed on underside of roof accross stringers. Timbers were sealed and bedded with a asphalt sealent and antenna was erected. Ofter antenna was erected it was boresighted on the predicted satellite position.

Erection of the UHF antenna was also accomplished at this time.

August 1, 1974

S-band aligned and checked out at this time; systems check out satisfactory.

September 2, 1974

UHF transceiver installed and aligned. Routine inspection and checks indicate normal operation of s-band and UHF terminals.

November 14, 1974

Crystal changed in UHF unit for channel 3 operation. Routine inspection of s-band and UHF equipment indicate normal operation.

January 5, 1975

S-band terminal failure; trouble traced to faulty s-band receiver. Receiver replaced and terminal operating normally. Installed motor drive, with modifications, on ATS-6 antenna. All systems check out satisfactory.

SITE SURVEY OF MINTO

August 14, 1973

Site survey of Minto performed at this time. Transportation to Minto was via small airplane from Fairbanks. Runway is rather primitive and looks as if equipment should be transported via roadway if possible. ATS-F antenna could be erected on ground timbers and soil at school appears to be a combination of silt and slate. Some trees might have to be cleared to get an unobstructed satellite view.

August 27 - 30, 1974

ATS-6 terminal installation equipment and supplies where loaded into a Hertz rent-a-truck for transportation to Mento. Three (3) maintenance personnel performed the installation and had considerable difficulty in augering holes and digging trenches for the cable due to the shale content of the soil. A backhoe was finally engaged to assist in the installation. Base installation proceeded satisfactory and antenna was erected and system checked out on 8-29-74.

VHF terminal encountered damage in shipment and was returned to Fairbanks for repair. Trees were cleared in front of ATS-6 antenna to give unobstructed satellite view.

September 6, 1974

UHF terminal repaired and installed. Systems check out satisfactory.

October 14, 1974

Crystal in UHF unit changed for channel 3 operation. Routine check of UHF and s-band terminal indicate norman operation.

SITE SURVEY

NENANA 7/14/73

Nenana is located on the Tanana River about 45 miles southwest of Fairbanks. Nenana is served by the Alaska Railroad and is accessible by highway from Fairbanks or Anchorage. The community also has a 6,250 foot gravel runway. Nenana is a first-class city and operates its own school system.

The school complex consists of a long single-story classroom building for grades 5 - 12 and a connected gymnasium building which also contains a multi-purpose room and additional classrooms. Grades K - 4 are housed in a separate building about two blocks from the main complex. The roof of the gymnasium building would be a satisfactory location for the antennas if approved by the school and city. Otherwise, the antennas could be located on the ground at the south side of the gymnasium or near the southeast corner of the classroom building. However, either of these ground locations would require protective fencing. The location of the video monitor and voice terminal within the building will be determined by school personnel.

SITE SURVEY OF NENANA

August 23 & 24, 1974

The installation at Nenana was performed by Ted McIntire, Larry O'Meara, and Richard Dowling. Material and equipment for the installation was transported by the installers to Galena.

Installation started with the placement of mounting timbers adjacent to the northwest corner of the school building immediately outside the video classroom. The helical antenna was mounted on a heavy timber which was set in a 3-foot deep hole in the ground and secured to the roof eave by lag bolts. The helical antenna mast was in turn bolted to the timber to raise the antenna above the roof.

Cables from the vhf and s-band antennas were brought into the room through a hole cut in the wall at floor level. Instead of bringing all the s-band coax inside the building, the excess length was buried in a shallow hole directly beneath the entry.

No transmissions for alignment were scheduled at the time of installation. However, the following week, during a regular broadcast the utilization aide at Nenana adjusted the antenna herself to obtain a satisfactory picture.

Early in November the vhf channel 4 crystal was replaced with a channel 3 crystal. This change was performed by Mark Espey of KUAC.

SITE SURVEY OF NIKOLAI

July 26, 1973

Nikolai is located on the south fork of the Kuskokwim River about thirty miles west of McGrath. The terrain surrounding the village for miles is open and flat.

Nikolai school is composed of three connected wooden buildings; a gable-roofed teachers quarters and classroom, a flat-roofed classroom and storage room, and a cafeteria building with a slightly peaked roof. The flat portion of the school roof consists of plywood decking on standard joists. Because of this comparatively light construction, roof-mounting of the antenna may not be feasible. However, the ground in front of the school provides an unobstructed satellite view. Like all other sites on the Kuskokwim, the ground is a mixture of sand and silt which should be easy to work before it becomes frozen.

The runway at Nikolai is somewhat primitive but can probably be negotiated by most light aircraft. The village is also accessible by boat from McGrath and presumably by float plane.

October 25, 1973

Installation of the ATS-6 receive only antenna base was accomplished on October 25, 1973. At the time of installation, the surface of the ground was frozen to a depth of four inches. After the surface was broken with a pick, a power auger was used to bore anchor holes down to 3 feet. Permafrost was not reached at this depth. Eight-inch, eight-way expandable anchors with 5/8" threaded rods were set at the three-foot level. After backfilling the anchor holes, the 6" X 8" timbers were drilled for the anchor rods, but we were unable to counterbore, as the bit was lost in shipment to the site. Rods were cut off flush with nuts; however, timber holes should be counterbored on the next site visit.

August 1, 1974

Installation of ATS-6 antenna and VHF antenna was accomplished at this time. Antenna mounts installed last October were still in good condition and installation was routine. Alignment and initial checks were satisfactory with signal strength on HP receiver at 19.

(Nikolai, cont.)

October 9, 1974

Checked ATS-6 terminal, some minor azmuth alignment was necessary. Spent time with new utilization aide in station operation procedures.

November 14, 1974

Failure reported in ATS-6 terminal the previous week, problem was corrected on this date. Trouble was due to a faulty pre-amp. Replaced crystal in VHF unit changing operation to channel 3. ATS-6 terminal and VHF check out satisfactory.

SITE SURVEY OF PETERSBURG

November 7, 1973

Petersburg is located on the north end of Mitkof Island at the northern entrance to Wrangell Narrows. Fishing, canning and lumbering are the principal industries of the community. The 1970 census of population was 2,042.

There are two schools in Petersburg, an older high school and a new elementary school. There are over 500 students enrolled in the elementary school.

The satellite is easily viewed from the eastern side of the school and a ground mount is possible. The earth, at this point, is fine gravel over dirt fill.

There is a commercial cable television system in Petersburg with the facility showing interest in distributing ATS-6 programming. The elementary school is wired for cable TV distribution in each classroom. Consideration should be given to the cable system as a means of program distribution.

November 16, 1973

Held discussions with Merle H. Davis and Jim Baunsgard of North Star Communications Company, owners and operators of Petersburg Television Cable System.

Explained the ATS-6 Health/Education Telecommunications experiment and requested information regarding distribution of ATS-6 programs over cable facilities.

Both Mr. Davis and Mr. Baunsgard stated that they were anxious to have programming available to them and that they would provide the facilities to get programs from the Petersburg school to the cable origination point and that they would broadcast programs on a real time basis.

November 21, 1973

Made unsuccessful attempt to install ground mounts for ATS-6

antenna. The fine gravel was not over dirt as originally anticipated but was over a large rock. The ground was also frozen making hole augering impossible.

March 28, 1974

Installation of ATS-6 antenna and mount was completed at this time. Constructed a box out of 2" X 12" timbers and filled with approximately five yards of gravel. Total weight of box was about 15,000 pounds and the additional height put antenna feed assemble out of reach of persons on the ground.

August 30, 1974

ATS-6 system alignment and installation of VHF terminal was completed during this time. Alignment checked OK with signal strength of 15 on HP meter. Interconnection with local cable system was made wich checks scheduled after program start.

November 5, 1974

Changed crystals in VHF receiver. Checked and aligned ATS-6 and VHF terminal. ATS-6 video quality was 5 X 5, audio was 3 X 3, cable system distributing a good picture.

SITE SURVEY OF SLEETMUTE

May 25, 1973

Sleetmute is located on the east bank of the Kuskokwim River about halfway between McGrath and Aniak. The village is on flat ground with hills to the west and east but has an unobstructed view to the south across the river plain.

The State-Operated School in Sleetmute is a single-story frame building with a steeply pitched roof. The most likely antenna location appears to be at the southeast corner of the school building, since oil storage tanks and various other buildings tend to obstruct the satellite view from most other points in the school yard. Like most other villages in this area, any ground not utilized for some purpose is covered with brush and trees, but since these are fairly small, clearing would not be much of a problem.

The village has a 2000 foot runway and is also accessible by float plane. Because the area between Sleetmute and McGrath is considerably more mountainous than the area to the south, it seems that air service out of Aniak would be more dependable, under poor weather conditions, than out of McGrath.

October 24, 1973

Installation of the ATS-6 receive only antenna base was accomplished on October 24, 1973. At the time of installation the surface of the ground was frozen to a depth of four inches. After the surface was broken with a pick, a power auger was used to bore anchor holes down to three feet. Permafrost was not reached at this depth. Eight-inch, eight-way expandable anchors with 5/8 inch threaded rods were set at the three-foot level. After backfilling the anchor holes, the 6" X 8" timbers were drilled for the anchor rods but we were unable to counterbore, as the bit was lost in shipment to the site. Rods were cut off flush with nuts; however, timber holes should be counterbored on next site visit.

July 13 & 14, 1974

Installation of the ATS-6 antenna was accomplished at this time utilizing bases installed last October. Original bases were still in

good condition and no evidence of permafrost heaving was present.

VHF antenna was also installed and digital coordinator and HP receiver were installed in the newer school building. Cables from the antenna to school were burried in a trench and admission to the building was gained by drilling holes in the floor.

Trees obscuring satellite view were felled and alignment of ATS-6 antenna and VHF were carried out with satisfactory performance. HP signal strength reading was 16 with 5 X 5 picture and 3 X 3 audio.

October 6, 1974

Installed second monitor and realigned ATS-6 antenna. Performance of system was satisfactory.

November 14, 1974

Crystals in VHF unit changed to channel 3, operation was satisfactory.

SITE SURVEY

TANANA 8/15/73

Tanana is located west of Fairbanks near the confluence of the Tanana and Yukon Rivers. Tanana is the location of the area's Alaska Native Health Service Hospital and will be the focal point of the Native Health Service experiments. Tanana receives 6-day per week service from Wien Airlines.

The main hospital building faces south with an unobstructed view across the Yukon River. Because of the nearness of other buildings, the antennas will have to be located at the front of the hospital building. Because this is a public area, protective fencing of some sort will be required. Another problem might be created by the presence of cars in the hospital driveway. This could be avoided by selecting a location far enough away from the driveway to look over the traffic, restricting parking, or raising the antennas on a platform. The school in Tanana is located aobut 360 feet east of the hospital. Phone and power lines passing the hospital come near enough to the school to use those poles for lines between the hospital and the school. In fact, a line from the school to the ATS-I transceiver at the hospital is installed at present. The radio room in the hospital has sufficient space for the transmit-only and receive-only indoor units.

SITE SURVEY OF TANANA

August 21, 22, & 23, 1974

Installation at Tanana was accomplished by Ted McIntire with assistants Glenn Martin, and Larry O'Meara. The s-band antennas were installed on the timber mounts which had been installed the previous fall. The antenna cables were buried in a shallow trench running from the antenna location to the building then through the outside wall to the radio-room at floor level.

The s-band transmitter was located on the floor near the cable entrance as the full cable length had to be used in the run from the antenna to the radio-room. The s-band receiver was located on top of the clinic equipment racks.

When the s-band equipment was installed, satellite tests were performed. Receiver operation was satisfactory, however, the transmitter appeared to have an intermittent problem in that the signal would occasionally become noisy as observed on the Tanana and Fairbanks sites. This sudden, random deterioration of the signal coincided with an increased reading on the relative power meter. This condition was corrected at a later date by the Hughes company.

To provide video and audio service to the school, a six-pair audio cable and a 75 ohm video cable were run from the clinic to the school. These cables were brought up through the ceiling of the radio-room to the attic of the building, then through the attic to the rear of the building. From the clinic the cables are carried on existing utility poles to the school. Since a video line amplifier was not available at the time of installation, the school circuit was not checked out.

A remote control unit, for the ATS-1 terminal in the clinic, was already available at the school and was to be moved from the library to the video room at the time of installation completion.

The school at Tanana was brought into full operation in September with the installation of a video line amplifier and control panel in the clinic. The control circuits enable the operator at the clinic to switch off the video and audio feeds to the school during medical traffic periods.

SITE SURVEY

VALDEZ 9/19/73

Valdez is located on the north side of Port Valdez in Valdez Arm. The community is located at the base of a mountainous ridge which rises to over 3,000 feet. The view to the south is toward the mountains on the opposite side of the valley, with approximately 4 degrees clearance over the mountains in the ATS-F satellite direction.

According to the school superintendent, the village is subject to severe weather in the winter with snow depths to 8 feet and occasional winds in excess of 100 m.p.h. The area surrounding the school is flat and clear. However, one possible location for the antenna, near the northeast corner of the gymnasium, would give some protection from south and west winds. Two heavy cables, secured to ground anchors which were previously used for a trailer tie-down, are available in the aforementioned location. These cables could conceivably be used to secure a platform for antenna mounting if required. The ground consists of coarse gravel and rocks typical of glacial deposits.

Valdez appears to be one of the more difficult installations due to weather and soil conditions. If the ground work is not completed before winter, it should be delayed until summer, as the snow cover sometimes remains until May.

SITE SURVEY OF VALDEZ

September 1978

As a result of plans for the cable TV company in Valdez to change its operating location, the decision to locate the terminal at the cable TV office had to be rescinded. The building which the cable outfit planned to occupy did not offer an unobstructed satellite view.

At this time it was decided to locate the terminal at the school. Because the school roof did not offer a suitable antenna location, it was decided to construct a platform for the antenna. The platform is necessary to clear snow drifts on the ground. Two local contractors were contacted for platform construction. The job was awarded to Glenn Mills Construction Company which bid $2100.

After construction of the platform, Wire Communications, Inc. of Anchorage was contacted to make the installation on a technician's time and materials basis. Ted McIntire was on hand the first day Wire Communications started work in order to indicate equipment locations and antenna erection procedures.

The high power receiver was mounted on the gymnasium wall about eight feet above the floor. The video and audio outputs are carried via cables from the receiver to the monitor located in the school library. The digital coordinator was also located in the library. The helical antenna was mounted near the front entrance to the school, the mast being strapped to a small wooden building in that location.

The installation was not checked out operationally by the Wire Communications crew. They reported inability to get the digital coordinator operating and due to scheduling were unable to check out the s-band system.

Don Martell was subsequently dispatched from the Office of Telecommunications to complete the check-out. The digital coordinator was incompletely hooked-up and the TNC connector between the diplexer and the receiver was missing. He made a temporary wire-to-wire connection and got the VHF unit operating. S-band reception and pointing was also accomplished.

In November contract employee, Richard Dowling, traveled to Valdez to install a motorized antenna elevation unit and make permanent connections on VHF.

(Valdez, cont.)

In January the utilization aide reported inability to point the antenna. George Shaginaw found the drive motor burned out. He replaced the motor and installed the antenna drive modification kit.

SITE SURVEY

YAKUTAT 9/20/73

The Yakutat school is located on the outskirts of the village of Yakutat in a fairly heavily wooded area. However, the ground slopes downward from the school to the south and is sufficiently cleared so that only the tops of the tallest trees intercept the satellite view-angle from the school. Since the trees are all on village land, permission for falling or topping trees can most likely be obtained.

Two obvious antenna location sites are on the ground at the east side of the school and on the roof at the southeast corner. Yakutat is subject to heavy snowfall and storms, but local people say the school is sheltered from high winds by the terrain and timber surrounding the school. The superintendent and other long-time residents felt that 40 m.p.h. would be the maximum winds experienced at the school location.

The ground appears to consist of sand and gravel. The school is a modern building and could possibly support a roof-mounted antenna with proper preparation of the mounting base.

* * *

Installation of the ATS-F receive only antenna base was accomplished on November 1, 1973. At the time of installation, ground surface was in good condition. A power auger and shovel were used to bore anchor holes down to three feet. Eight inch, eight way expandable anchors with 5/8" threaded rods were set at the three foot level. After backfilling the anchor holes, the 6" x 8" timbers were drilled for the 5/8" rod and set into place. Rods were cut off flush with nuts completing base installation.

(Yakutat, cont.)

September 24, 1974

ATS-6 antenna system erected on mounts installed last fall. Installation of this terminal was accomplished by Wire Communications Incorporated, Anchorage, Alaska. The system was aligned and checked out at this time, and was operating satisfactory. UHF system installed and checks out satisfactory.

November 5, 1974

UHF terminal changed for channel 3 operation. Routine check of UHF and s-band terminals indicate normal operation.

December 20, 1973

Dr. Albert L. Horley
Director of Telecommunications Policy
U.S. Dept. of HEW
330 Independence Avenue, SW
Washington, D.C. 20201

Dear Al:

I'm writing to express my great concern over delays werare experiencing in the equipment delivery schedule for the Alaska ATS-F receiver terminal installationaand maintenance contract. I view the delays that we have experienced so far as having an adverse effect on our ability to perform in accordance with the terms of the contract and within the budget to which we agreed last June.

As a result of discussions held at the September 18 operations meeting in Juneau, we were told that the first seven receive-only units would be shipped to Alaska. Westinghouse had informed us, also in September, that the first antennas would be shipped on the first of November, and the electronics for the receivers would be shipped beginning November 15. We therefore expected the first units to begin arriving at our shipping depots by the end of November. In a phone conversation on November 23, with Al Whalen, Ted McIntire learned that the first antennas would be shipped December 1. On December 10, we called Al Whalen again, who said he then expected shipment to take place the week of December 17. He indicated that he would call us as soon as shipping documents were signed.

Needless to say, as of this moment, no equipment has arrived at any Alaska depot. By the time this letter reaches you we will be a full month behind the schedule we anticipated being able to assume at the end of November. The effedt of this delay is causing us to hold people on the payroll in order to be sure of their talents when the equipment does begin arriving. This clearly has unfortunate and unplanned-for cost impact on our budget.

I would like to request a written statement of the delivery schedule that we can realistically expect for antennas and hardware for the receive-only equipment and for the transmit equipment (the schedule for which we now understand has slipped to June of 1974).

I hope you understand the frustration we are experiencing in waiting for the equipment. We are ready to go ahead. We simply need a regular schedule of delivery that can allow us to do so.

Cordially,

Charlie

Charles M. Northrip
Satellite Experiment Coordinator
Office of Telecommunications

cc: Al Whalen
Al Finer
Gordon Law
C.L. Buck

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

OFFICE OF THE SECRETARY

WASHINGTON, D.C. 20201

January 11, 1974

Copies to Teq
CLB
chron file

REC'D JAN 14 1974

Dr. Charles Northrip
Satellite Experiment Coordinator
Office of The Governor of Alaska
Pouch A
Juneau, Alaska 99801

Dear Charlie:

Please be assured that I share your concern over delays in delivery of equipment. All of the experimenters are confronting a similar problem. The reasons for these delays are well-known to us although by no means satisfying -- difficulties in coordinating the diverse elements of such a large project, bureaucratic inefficiency especially on the Federal level, shortages of raw materials (in particular, resin for the fiber-glass antennas), fuel shortages which disrupt transportation schedules, and severe weather almost everywhere.

Al Whalen has assured me that the preliminary shipment of antennas to Alaska depots was made in late December. He is responsible for supplying you with up-to-date information on the delivery of receive-only terminal components. You will appreciate, I am sure, the difficulty in supplying you with an advance written schedule which can be assured.

According to our contractual arrangement, the delivery of the transmit terminals is expected prior to the end of June. It is likely that at least the antenna portions of these terminals could be delivered much sooner. Every effort will be made to accelerate this schedule.

By the time you receive this letter I hope you will have a clearer picture of the delivery schedule and perhaps even have some antennas. I will be looking forward to seeing you at the NASA/HEW Review on January 21.

Albert L. Horley, Director
Office of Telecommunications Policy

July 2, 1974

Dr. Albert L. Horley
Director of Telecommunications
Policy, Department of H.E.W.
330 Independence Avenue, S.W.
Washington, D.C. 20201

Dear Al:

This is to notify you that installation of the ATS-6 terminals has again slipped due to late delivery of equipment. Our last milestone chart, submitted in April, was based on equipment delivery prior to June 1. VHF terminals and S-band transmitters and antennas have yet to be delivered.

The latest word from Dr. Janky of the Federation of Rocky Mountain States indicates that a partial shipment of VHF terminals cannot take place before the third week in July. Delay in delivery of the S-band transmitters and antennas has also had an unforseen impact on the installation schedule. In order to speed completion of the comprehensive terminals we assigned two each of the original antenna shipment to Juneau, Fairbanks, Ft. Yukon, and Tanana. But since we still have not received additional antennas for the transmit terminals we are now short 4 antennas for receive-only sites at Yakutat, Minto, Nenana, and Galena.

Since travel consumes an appreciable portion of the time, and most of the expense, in each site visit, it is not efficient in terms of time or money to make a separate trip to a site each time a part of the installation equipment becomes available.

A milestone chart indicating the current installation status is enclosed. Transportation difficulties have delayed delivery of equipment to Chuathbaluk, Sleetmute, and Nikolai. However, it is expected that antenna installation in those communities can be completed during the week of July 8.

Sincerely,

C.L. Buck
Director

Enclosure

MEMORANDUM State of Alaska

TO: Rex Taylor
Education Experiment Manager

DATE: September 12, 1974

FILE NO:

TELEPHONE NO:

FROM: Dave Hammock
Program Assistant

SUBJECT: Studio set construction

Subject to your approval I have the following sets in mind for the Juneau studio.

One basic set consisting of six 4x8 masonite panels giving a maximum background area of 24 ft. Each panel will be attached to a 2"x2" frame. The frames will be designed so that either bolts or lash lines will be able to join one panel to another. This will allow us the utmost flexibility in studio arrangement.

I also intend to purchase four 9 foot long by 3 foot wide lengths of dyed burlap. These strips of cloth can be easily dropped over the top of the masonite panels, giving us an entirely different set. I haven't decided whether the lengths of cloth should all be the same color, or if there should be two strips of each two colors, or if there should be four different colors. In any case the colors chosen will complement the basic panels, allowing a "mixed" set, which gives us further flexibility.

The last set will be a panel or combination of panels, made of muslin on a wooden frame, totaling 8 to 12 feet in width. This set will be painted blue and used as a chroma key background. This is necessary as the only wall in the studio suitable for chroma keying has been made unusable by the desk and storage cabinet we had to put in the studio.

Our standard office chairs will be quite adequate for on-camera use.

I have not yet designed a table since neither the interactive teachers or Experiments of Opportunity have defined their need for studio furniture. However, I have budgeted a sum of $75.00 for some such item.

I intend to use the studio crew to construct the sets.

A budget projection is attached.

Juneau Studio Set Cost Projection

Item			
1)	Six 4 x 8 panels (masonite) @15.00 ea.	=	$90.00
2)	12 yards of dyed burlap @1.10 per yard	=	$13.20
3)	200 feet of common 2 x 2 lumber @ .15 per foot.	=	$30.00
4)	Three 4 x 8 muslin panels @10.00ea. (est.)	=	$30.00
5)	Misc. hardware, lashline, extra lumber, paint.	=	$50.00
	Sub total		$213.20
6)	Studio table/podium/desk/??		$86.80
	Total		$300.00

APPENDIX A

EXPERIMENT TEST PLAN

Technical Tests and Data to be Taken

March 21, 1974

Technical data gathering in Alaska will be somewhat limited inasmuch as the main thrust of the Alaskan experiment is toward the educational and cultural aspects of the program. At the remote sites, a person will be designated to keep such logs of equipment operation as would be within the capability of non-technical people, i.e., signal strength, power output indications and other pertinent reading available on built-in metering. In addition, at each site a form will be provided for logging of subjective evaluations of picture and audio quality with descriptions of what are considered to be flaws in the received signals. These logs will be sent weekly to the State Telecommunications Office in Juneau which will forward copies to the Fairbanks originating center.

This data will be evaluated to determine whether the Alaskan system is operating satisfactorily, what improvement is needed and, also, to indicate where maintenance is required.

Maintenance personnel will keep detailed logs on maintenance of the earth terminal equipment. These logs will be retained for analysis of equipment reliability and maintenance requirements.

The ATS-I satellite voice circuits will be relied upon for communication between the Fairbanks and Juneau originating centers and the Denver control center as well as between the "truth" sites and Denver for satellite pointing information.

Commercial telephone circuits will be used for routing and back-up communi-

cations with Denver using either voice or facsimile.

The interface between the ATS-F receiver-only terminal will consist of a 75-ohm coaxial between the video output of the indoor unit and the 75-ohm input terminal of a video receiver/monitor, and a four-pair audio cable between the audio output terminals of the indoor unit and a four-position double pole switch box. The switch box will be used to select the desired audio channel for application to the 600-ohm audio input of the receiver/monitor. At the Juneau and Fairbanks comprehensive terminals, the video output from the receive-only indoor unit will be applied to a 75-ohm terminated input of a video distribution amplifier. The four received audio channels will be applied to patch-panel or switcher for distribution to monitor amplifiers, ATR's or VTR's as required. Video signals to the transmit-only terminal will be applied, at a 1 volt peak-to-peak level, through coaxial cable from the 75-ohm output of a video line amplifier. The four audio channels will be applied to the transmit-only terminal through a four-channel audio line amplifier.

Pending delivery to Alaska of the earth station equipment, installation of those terminals will continue through the launch period. The receive-only terminals at Chauthbaluk and Valdez will be completed in June of 1974. During the post-launch test period, those stations which have been installed will be aligned and checked out by technicians employed by, or under contract to, the experimenter. During the post-launch experiment period, the ground station equipment will be initially maintained on an as-required basis with a routine maintenance program set up with a maximum period of 60 days between maintenance visits. This routine schedule will be adjusted if experience indicates that more, or less, frequent maintenance is required.

ATS-F RECEIVE STATION

ATION _____ OPERATOR'S LOG
(COMMUNITY NAME)

TE	TIME ON	TIME OFF	METER ① READING	PICTURE ② QUALITY	TV AUDIO ③ QUALITY	TV AUDIO ④ CHANNEL #	RADIO ③ QUALITY	COMMENTS ⑤	SIGNATURE

① FRONT PANEL METER WHILE SIGNAL IS BEING RECEIVED

② INSERT NUMBER WHICH BEST DESCRIBES PICTURE:
- 1 EXCELLENT
- 2 FINE
- 3 PASSABLE
- 4 MARGINAL
- 5 POOR

③ CLEAR, NOISY, WEAK ETC.

④ CHANNEL BEING USED

⑤ NOTE OPERATIONAL DIFFICULTIES, MAINTENANCE REQUIRED, ANTENNA ADJUSTMENTS MADE.

ATS-F MAINTENANCE LOG

STATION_____
(Community Name)

DATE	ROUTINE MAINT.			ADDITIONAL MAINT. REQUIRED	REPAIRS MADE/MAINT. COMPLETED	COMMENTS	S.I.G.
	Item	Item	Item				

MEMORANDUM State of Alaska

TO: Joseph R. Henri
Commissioner
Department of Administration

DATE: April 9, 1974

FILE NO:

TELEPHONE NO:

FROM: C.L. Buck
Director
Office of Telecommunications

SUBJECT: Bid waiver

The test equipment described on the attached purchase requisition is needed for installation maintenance and testing of ATS-F terminals.

This test equipment is needed immediately to facilitate electronic testing of ATS-F terminals, which are presently being installed.

Due to the time required for normal processing and due to estimated delivery dates of 15 weeks we are requesting a bid waiver to purchase the described equipment at this time.

We know the mentioned Tektronix equipment will meet our requirements and due to Tektronix's pricing policy of selling their equipment at list price through their distributors there is no advantage financially to go to competitive bid.

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Ann
for your info
Ed.

file
(tell CLB I have no objections a bid waiver
CMN

Ted McIntire
Technical Manager

March 26, 1974

George Shaginaw
Installation & Maintenance Supervisor
Office of Telecommunications

Test equipment for
ATS-F project.

I anticipate needing the following equipment for installation, maintenance and testing of ATS-F terminals and Juneau Studio.

(1) television test signal generator:
(2) Dual Trace Oscilloscope
(3) Multi-meter - FET preferred.

I recommend the following equipment:

(1) Tektronix model 146 test signal generator which will provide the following test signals.

EIA Color Bar
Color Bar Luminance Signal
Full Field Color Bar
Modulated 5 Step Staircase
Modulated 10 Step Staircase
Modulated Pedestal
Convergence Pattern
Flat Field, Variable Level
Mixed Test Signal
Full Color Sync Generator Capability
Cost $2500.00.

(2) Tektronix 465 Oscilloscope with option 5 and 7.
Features:

Dual Trace
TV Sync Seperator
100 MHz at 5 mv/Div Readout
5 ns/Div Sweep Rate
8 X 10 - cm Display
Automatic Volts/Div Readout
Light Weight, 23 pounds
Operates on AC, 12 - 24 VDC external source or with 1106 battery power pack.
Cost $1900.00.

(3) Sencore Little Henry FE23 $80.00 or Sencore 6" High, Low FE20 $140.00

Due to the short time before starting installation I recommend we ask for a waiver for bid and purchase of this equipment. To do this it would be necessary for Chuck to ask for this waiver in writing to the Commissioner of the Department of Administration. If we go to bid it will take at least 7 days for General Services to process, 30 days for circulations and up to 90 days for delivery from date of award. Hopefully, most installation will be completed by August 1, and that's probably when we would get the test equipment if we go to bid.

PURCHASE REQUISITION

TO: DEPARTMENT OF ADMINISTRATION, DIVISION OF SUPPLY

☐ ROOM 810 MACKAY BUILDING 338 DENALI STREET ANCHORAGE, ALASKA 99501

☐ ROOM 210, ALASKA OFFICE BLDG. POUCH C JUNEAU, ALASKA 99801

3 - DEPARTMENT

INSTRUCTIONS: FILL IN FORM BY TYPEWRITER. DOUBLE SPACE ENTRIES BETWEEN ITEMS. USE CONTINUATION SHEET 02-094A IF ADDITIONAL SPACE IS NEEDED.

DEPT NO.	REQ. NO
PR-01	4064

FROM
DEPARTMENT: OFFICE OF THE GOVERNOR
BUREAU: OFFICE OF TELECOMMUNICATIONS

DATE DELIVERY REQUIRED: ASAP

DATE OF PR: April 9, 1974 E.1.2

F.O.B. POINT:

DELIVER TO: 826 Calhoun Street Juneau, Alaska

SHIPPING INSTRUCTIONS: Air Freight

Please phone 586-1289 upon delivery.

THIS SECTION FOR USE OF DIVISION OF SUPPLY ONLY

BID NO.	OPENING DATE	P. O. NO.

BUDGET ITEM NO.	QUANTITY	UNIT	ITEM AND DESCRIPTION	UNIT PRICE	AMOUNT
	1		Tektronix Model 146 Test Signal Generator which will provide the following test signals. EIA color bar color bar luminance signal full field color bar modulated 5 step staircase modulated 10 step staircase modulated pedestal convergence pattern flat field, variable level mixed test signal color sync generator	$2573.00	$2573.00
	1		Tektronix Model 465 Oscilloscope with option 5 and 7. dual trace TV sync separator 100 MHz at 5 mv/DIV readout 5 ns/DIV sweep rate	$2000.00	$2000.00
				TOTAL ALL PAGES	$ 4675.00
				NOT TO EXCEED	$

TO BE COMPLETED BY ORDERING DEPARTMENT

TRAN	DEPT	DIV & PROG.	FUNCTION	SUB FUNCTION	OBJECT RECEIPT	MISC FUNCT.	PROJECT LEDGER	PER CENT OR ITEM NO.
250	01	13	1	011	530			1008

PAGE NO. 1 OF 1 PAGES

SUGGESTED VENDORS
Bennett Engineering
Northern Video Systems
Tektronix Inc, Box 500, Beaverton, Oregon

REQUISITIONED BY: C.L. Buck

DIVISIONAL APPROVAL

I HEREBY CERTIFY THAT THE UNENCUMBERED BALANCE IN THE APPROPRIATION CITED HEREON IS SUFFICIENT TO COVER THIS PURCHASE AND THAT THIS PURCHASE IS AUTHORIZED HEREUNDER.

E.1.2/PAGE 8

CERTIFYING OFFICER

PACKING LIST

juneau electronics

phone 586-2260 — 241 s. franklin street, juneau, alaska 99801

CUSTOMER'S ORDER NO. _____ DATE 4/22 19 84

SOLD TO State of Alaska

ADDRESS Office of Telecommunications
Pouch AC

SALESMAN

MDSE. SOLD			MDSE. RET'D.		REC'D ON	
CASH	CHARGE	C. O. D.	CASH	CREDIT	ACC'T	NOTE
	✓					

QUANTITY	PARTS NUMBER	DESCRIPTION	PRICE	AMOUNT
1	FE-22 VOM			90 00
	Cal #15734S			
	User Manual			
	Installation Kit			
	AT-E [illegible]			
		SALES TAX		

21584 — RECEIVED BY — TOTAL 90 00

554 ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.
Florpake © Moore Business Forms, Inc.

STATE OF ALASKA

WILLIAM A. EGAN, GOVERNOR

OFFICE OF THE GOVERNOR

OFFICE OF TELECOMMUNICATIONS / POUCH AC – JUNEAU 99811

October 16, 1974

file

Albert A. Whalen, Chairman
HET Operations Working Group
Goddard Space Flight Center
NASA, Code 951
Greenbelt, Maryland 20771

Dear Al:

It is becoming increasingly apparent that if our ATS-6 program is to be successful we must either change our vhf frequencies or change the ATS-1 scheduling so that other experimenters cannot use channel four during ALED program periods. During our program on October 14, from 1900 to 2025, the interactive portion was completely unuseable due to interference from ARC stations. These ARC stations occasionally came in with sufficient strength to completely over-ride our own stations. Even when the outside stations cannot be read, we are plagued with squelch breaks which, when adjusted out, raises the squelch threshold to the point that the weaker stations in our own network cannot be heard.

During our October 14 program call signs and messages between ARC 90, 91, 92 and 94 were read clearly.

Sincerely,

Ted McIntire
Technical Manager

CMN
Sent this for the record.
Volkmer says crystals have been ordered. To be shipped on or about Oct 25.

APPENDIX E.3 S-BAND RECEPTION PROBLEMS AT INTENSIVE TERMINAL
Craig, Alaska

April 1974	Construction was begun on roof mount for antenna. The next day the antenna was erected and anchored on the roof platform. The antenna was then bore-sighted on the predicted satellite position.
September 1974	The installation of receiving electronics equipment was completed and the digital coordinator was checked out. Alignment with the satellite was attempted, but reception was unsatisfactory. S-band video signals could not be received. Suspecting a defective receiver, GOT returned the unti to Hewlett Packard for repair. Due to lack of spare receivers, the terminal had to be left non-operational.
October 7, 1974	When the repaired receiver was returned from Hewlett Packard it was installed at Craig, but no video signal was received. The receiver was returned to Juneau for checking, where it operated normally.
October 15, 1974	A second trip was made to Craig. This time the whole indoor installation was moved to another room in order to increase the distance between the receiver and dish antenna, to eliminate the possibility of S-band feedback and cancellation. However, S-band reception was still unnacceptable, with barely perceptable signal strength readings and video. The entire electronics system, including cabling, was removed and installed at Juneau, to test the operation of all critical electrical components. The system operated satisfactorily in Juneau. While the electronics components were being checked in Juneau, the regular Juneau receiver failed, and was replaced by the unit from Craig. Craig was still non-operational.
November 1974	After testing all the Craig equipment at the Juneau station, the equipment was re-installed for another attempt to receive a video signal at Craig. To eliminate the possibility of incorrect satellite pointing, a special alignment test was conducted with NASA to place Craig directly at the center of the footprint beam. The indications were identical with the previous tests; a very weak indication of reception at the predicted aiming coordinates with a peak signal strength indication of about 2. The only part of the system which had not been replaced or checked out was the S-band antenna itself. While it seemed unlikely that the antenna could be defective, that remained a possibility.

December 1974 — The S-band antenna which had been shipped to Galena was planned to be shipped to Juneau for installation at Craig. Due to heavy holiday shipping, then freight backlog and bad weather, the antenna did not actually reach Craig until early March.

March 10, 1975 — GOT Technical Manager and Installation and Maintenance Supervisor travelled to Craig in a joint effort to get the terminal operational. S-band testing and component substitution assured a working system. The antenna installed in Craig was found not to be defective, and the substitute antenna was not installed. The only possible reason for unsatisfactory reception remained ATS-6 receive alignment. Since Craig had been boresighted and checked the same as all other sites and no other site had similar difficulties, the only possible explanation had to be magnetic error not listed or known to affect compass readings. The ATS-6 S-band signal was found to be about 13° from boresighted predictions. With antenna adjustment, the signal was very sharp and provided a satisfactory picture.

NOTE: During the time that the Craig terminal was non-operational, GOT provided the Craig school with a 3/4 video cassette playback unit and sent video tape copies of HET programming. Although this eliminated the Craig students from participating in the interaction portions of the programming, the solution seemed to be quite satisfactory to Craig residents.